HST-D307

SERVICE MANUAL

AEP Model
UK Model
East European Model

HST-D307 are the
STEREO DECK RECEIVER
in LBT-D307/D307CD.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. " DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	NEW	
Tape Transport Mechanism Type	DECK A	TCM-190RA12CL
	DECK B	TCM-190RB22CL

SPECIFICATIONS

Tuner

System	FM stereo FM/AM superheterodyne tuner
FM tuner section	65 to 74MHz(East Europian model)
Tuning range	87.5 to 108 MHz
Antenna	75 ohms unbalanced
Intermediate frequency	10.7 MHz
MW/LW tuner section	
Tuning range	MW: 522 to 1,611 kHz (Italian model) 531 to 1,602 kHz (AEP, UK, Germany, East Europian model) LW: 144 to 288 kHz (Italian model) 153 to 279 kHz (AEP, UK, Germany, East Europian model)
Antenna	AM loop antenna External antenna terminal
Intermediate frequency	450 kHz

Amplifier

DIN power output	40W + 40W (6 ohms, at 1kHz)
Continuous RMS power output	48W + 48W (6 ohms, at 1 kHz, 5% THD)
Music power output	80W + 80W (6 ohms)

Input	Jack type	Sensitivity	Impedance
PHONO	Phono	3mV	47 kohms
VIDEO	Phono	300mV	47 kohms
CD	Phono	300mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Frequency response	CD: 15 Hz to 50 kHz $^{+0}_{-3}$ dB

Cassette deck

Recording system	4-track 2-channel stereo
Frequency response	DOLBY NR OFF With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB) With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (±3 dB)

– continued on next page –

COMPACT Hi-Fi STEREO SYSTEM

SONY®

MICROFILM

Turntable (Except for HST model)

Platter	30cm
Tone arm type	Dynamically balanced
Cartridge type	Moving magnet type
Stylus	CN-234 (0.6 mil diamond)
Weight	Approx. 2.3kg
Dimensions	Approx. 355 × 95 × 345 mm (w/h/d), including projections)

Supplied accessories

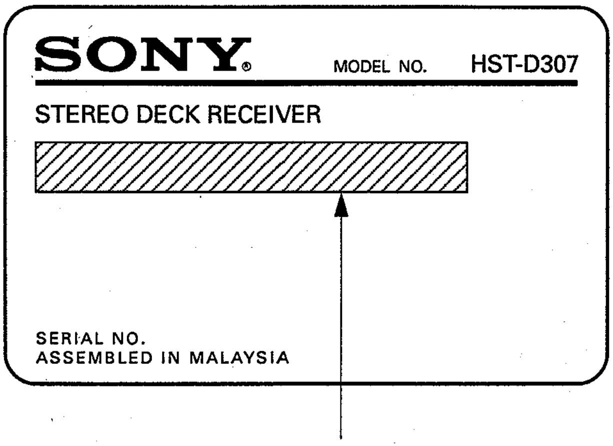
- Remote commander RM-S305 (1)
- Batteries Sony SUM-3 (NS) (2)
- FM wire antenna (1) (excluding Germany model)
- AM loop antenna (1)
- 45-rpm adaptor (1) (excluding for HST model)

General

Power requirements	220 – 230V AC, 50/60Hz 240V AC, 50Hz (UK model)
Power consumption	130W 250W (UK model)
AC outlet	Switched 100W max.
Weight	Approx. 9.1kg
Dimensions	Approx. 355 × 380 × 325 mm (14 × 15 × 12 7/8 inches) (w/h/d, including projections)

MODEL IDENTIFICATION

– SPECIFICATION LABEL –



AEP, Germany, Italian,
East European MODEL : AC 220 - 230V, 50/60Hz
UK MODEL : AC240V, 50Hz

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SAFETY-RELATED COMPONENT WARNING!!

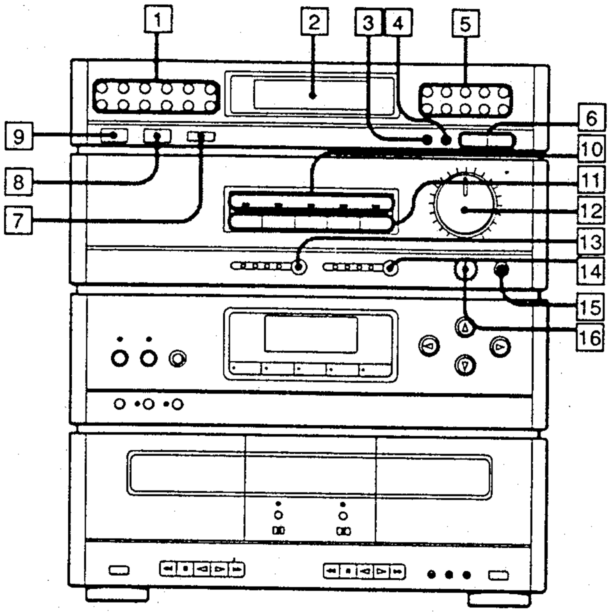
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

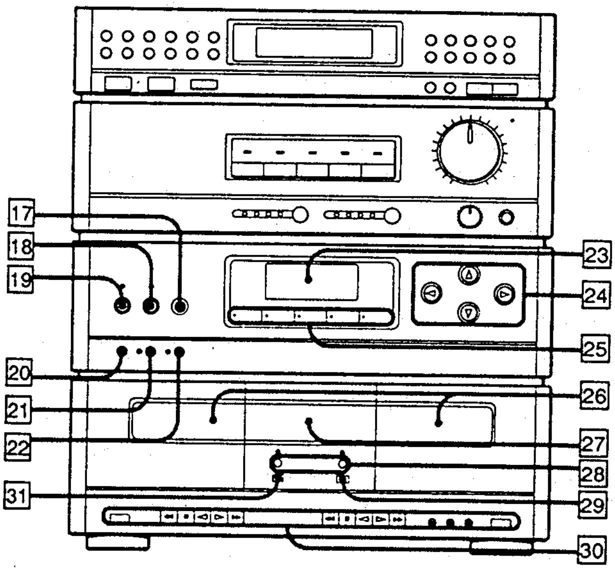
This section is extracted from instruction manual.

SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS

Refer to the pages indicated in parentheses for details.





Tuner

1 Buttons for setting the clock and timer (24, 26, 27)
2 Display window
3 SHIFT button (10)
4 BAND SELECT button (9)
5 Numeric buttons (10)
6 TUNING/TIME/CHARACTER buttons (9, 11, 24, 26)
7 SLEEP button (25)
8 Remote sensor
9 POWER button (6)

Amplifier

10 Function indicator
11 Function selectors (VIDEO/TAPE/CD/TUNER/PHONO)
12 VOLUME control and indicator (7)
13 SURROUND button and indicator (19)
14 DBFB (dynamic bass feedback) button and indicator (19)
15 HEADPHONES jack
16 BALANCE control (7)

Graphic Equalizer

17 CLEAR button (19, 22)
18 MEMORY button and indicator (22)
19 PERSONAL FILE button and indicator (23)
20 DISPLAY button (11, 24)
21 EFFECT button and indicator (15, 19)
22 EQ REC (equalizer recording) button and indicator (15, 20)
23 Display window
24 CURSOR CONTROL buttons (21)
25 Numeric buttons and indicators (20, 23)

Cassette Deck

26 Cassette holders
27 Operating indicators
28 SYNCHRO DUBBING buttons (17)
29 DIRECTION MODE selector (12, 13, 15, 17)
30 Tape operation buttons
  ◀◀ Leftward fast winding/AMS*
  ▶▶ Rightward fast winding/AMS*
  ▶ Forward play
  ◀ Reverse play
  ■ Stop
  ≜ EJECT
  ⏸ PAUSE (deck B only)
  ○ REC MUTE (record muting) (deck B only)
  ● REC (record) (deck B only)
31 DOLBY NR (noise reduction) switch (15)

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2
ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record / playback head	pinch roller
erase head	rubber belts
capstan	idler

2. Demagnetize the record / playback head with a head demagnetizer
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

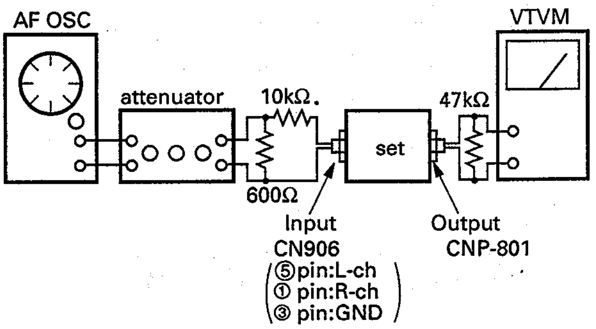
Torgue	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g•cm (0.49 to 0.83 oz•inch)
FWD Back tension	CQ-102C	2 to 6g•cm (0.028 to 0.08 oz•inch)
REV	CQ-102RC	35 to 60g•cm (0.49 to 0.83 oz•inch)
REV Back tension	CQ-102RC	2 to 6g•cm (0.028 to 0.08 oz•inch)
FF, REW	CQ-201B	70 to 110g•cm (0.98 to 1.52 oz•inch)

2-2. ELECTRICAL ADJUSTMENT

Note : The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording. The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  DOLBY NR switch : OFF
  DIRECTION MODE switch : ⇄
- Standard Record :
  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

– Record Mode –



Standard Input Level

input terminal	Input (CN906)
source impedance	10kΩ
input level	0.25V (–10dB)

Standard Output Level

output terminal	Output (CNP-801)
load impedance	47kΩ
output level	0.44V (–5dB)

Test tape

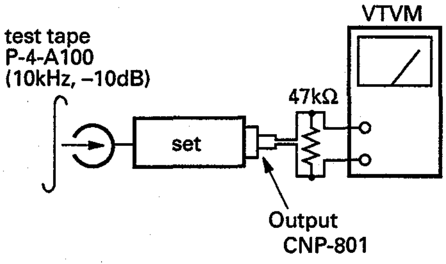
Type	Signal	Used for
P-4-A100	10kHz, –10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record / Playback Head Azimuth Adjustment

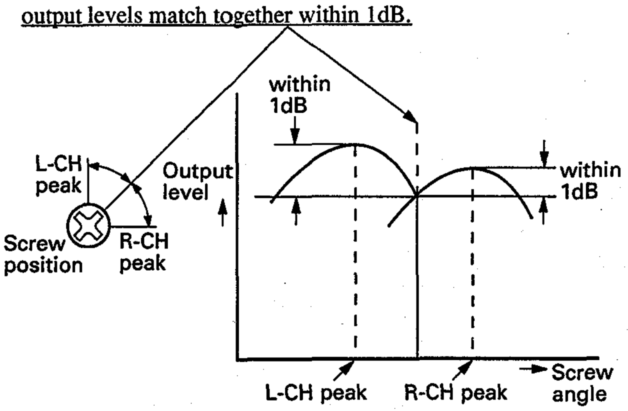
DECK A DECK B

Procedure :

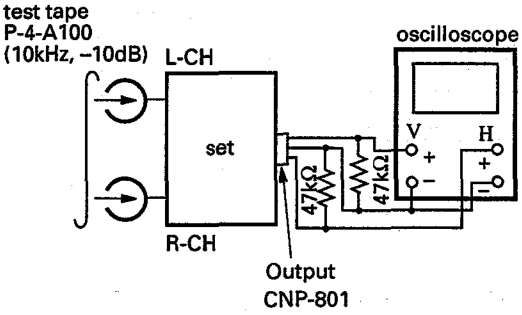
1. Mode : FWD Playback

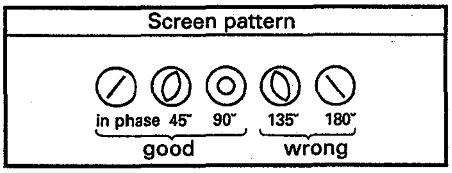

VTVM
test tape
P-4-A100
(10kHz, –10dB)
47kΩ
set
Output
CNP-801

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



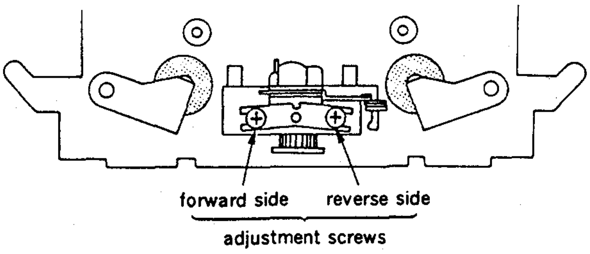
3. Phase Check
   Mode : FWD playback


test tape
P-4-A100
(10kHz, –10dB)
L-CH
oscilloscope
set
V
H
+
–
+
–
47kΩ
47kΩ
R-CH
Output
CNP-801


Screen pattern
in phase
45°
90°
135°
180°
good
wrong

4. Set in the REV mode and repeat the step 1-3.
5. After the adjustment, lock the screws with locking compound.

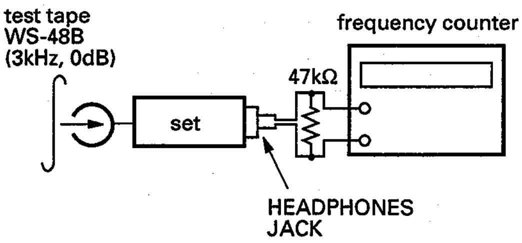
- Azimuth adjustment screw


forward side
reverse side
adjustment screws

Tape Speed Adjustment DECK A DECK B

Perform high speed adjustment before normal speed adjustment

Procedure :
Mode : FWD playback


test tape
WS-48B
(3kHz, 0dB)
frequency counter
47kΩ
set
HEADPHONES
JACK

(High Speed Adjustment)

1. Short test pin CNP901 on TC SIGNAL board.
2. Set to FWD playback mode.
3. Keep on pressing the HIGH SPEED DUBBING switch.
4. Adjust RV72 so that the frequency counter reading becomes 6,000 ±30Hz.
5. After adjustment, disconnect CNP901 shorted in step 1.

(Normal Speed Adjustment)

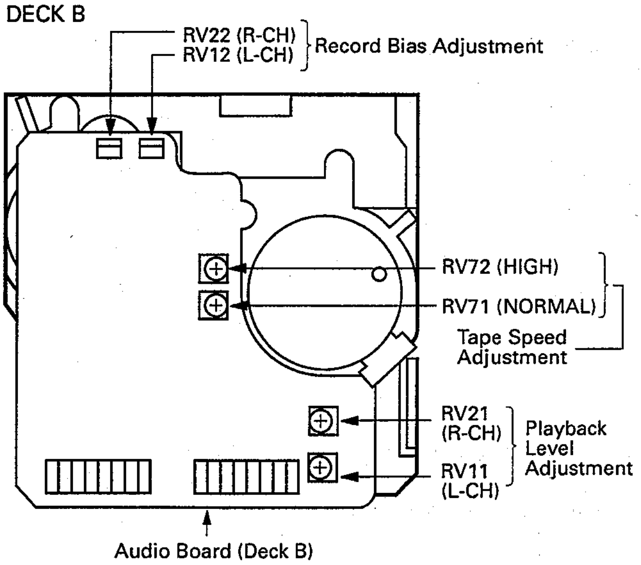
1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes 3,000 ±15Hz.

Frequency difference between deck A and deck B the beginning of the tape should be within 1.0%.

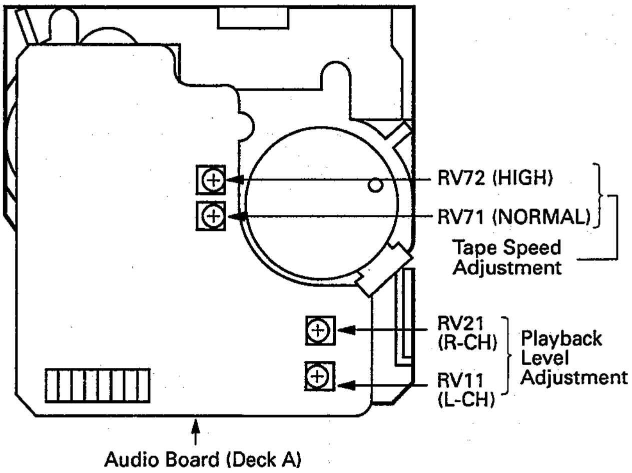
Adjustment Location : MD-A, MD-B board

Adjustment Location : AUDIO board (DECK A),
AUDIO board (DECK B)

DECK B

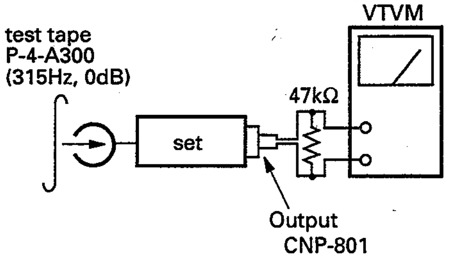

RV22 (R-CH)
RV12 (L-CH)
Record Bias Adjustment
RV72 (HIGH)
RV71 (NORMAL)
Tape Speed Adjustment
RV21 (R-CH)
RV11 (L-CH)
Playback Level Adjustment
Audio Board (Deck B)

DECK A


RV72 (HIGH)
RV71 (NORMAL)
Tape Speed Adjustment
RV21 (R-CH)
RV11 (L-CH)
Playback Level Adjustment
Audio Board (Deck A)

Playback Level Adjustment DECK A DECK B

Procedure :
Mode : FWD playback

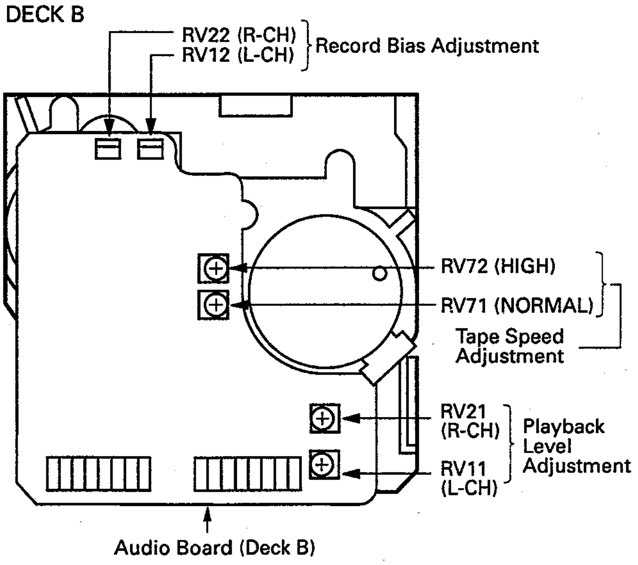

test tape
P-4-A300
(315Hz, 0dB)
set
47kΩ
VTVM
Output
CNP-801

Adjust RV11 (L-CH), RV21 (R-CH) so that the reading on VTVM meets the adjustment limits below.

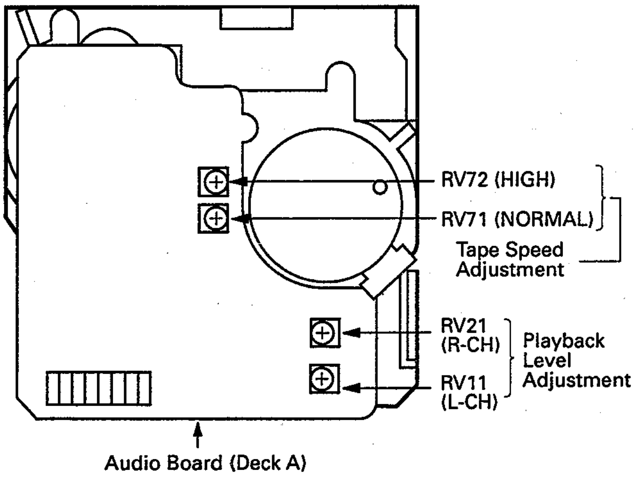
Ajustment Limits :
Output level : –2.7±1.5dB
Level difference between channels : less than 1.0dB
Confirm that the OUTPUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : AUDIO board (DECK A),
AUDIO board (DECK B)

DECK B


RV22 (R-CH)
RV12 (L-CH)
Record Bias Adjustment
RV72 (HIGH)
RV71 (NORMAL)
Tape Speed Adjustment
RV21 (R-CH)
RV11 (L-CH)
Playback Level Adjustment
Audio Board (Deck B)

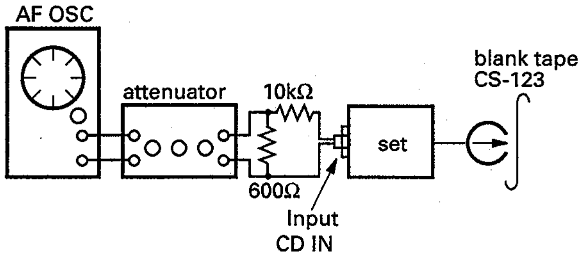
DECK A


RV72 (HIGH)
RV71 (NORMAL)
Tape Speed Adjustment
RV21 (R-CH)
RV11 (L-CH)
Playback Level Adjustment
Audio Board (Deck A)

Record Bias Adjustment DECK B

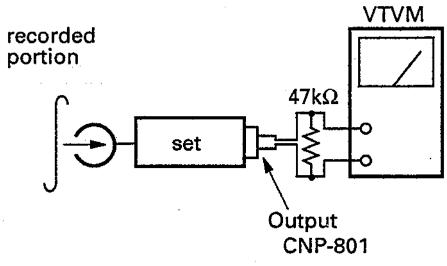
Setting :
REC LEVEL control : Standard Record (See page 4).
Test pin CNP-901: Short

Procedure :
1. Mode : record


AF OSC
attenuator
10kΩ
600Ω
set
blank tape
CS-123
Input
CD IN

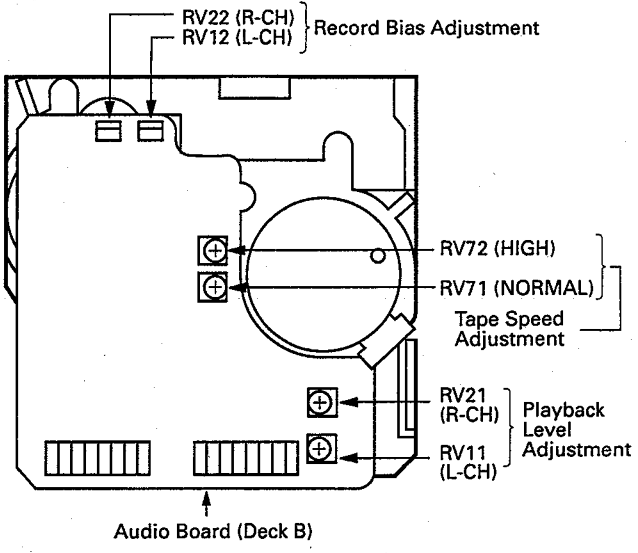
1) 315Hz
2) 10kHz } –26dBV

2. Mode : FWD playback


recorded
portion
set
47kΩ
VTVM
Output
CNP-801

3. Playback the signal recorded in step 1.
Confirm that the 10kHz playback output is 0±0.5dB relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location : AUDIO board (DECK B)

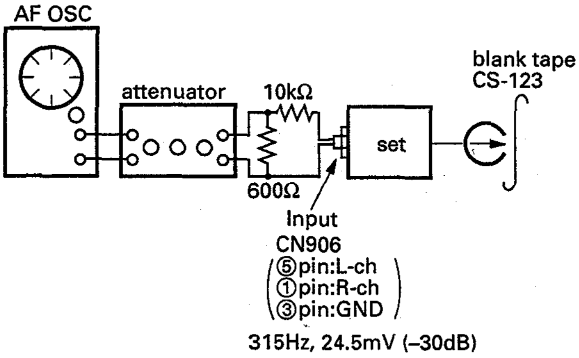

RV22 (R-CH)
RV12 (L-CH)
Record Bias Adjustment
RV72 (HIGH)
RV71 (NORMAL)
Tape Speed Adjustment
RV21 (R-CH)
RV11 (L-CH)
Playback Level Adjustment
Audio Board (Deck B)

Record Level Adjustment DECK B

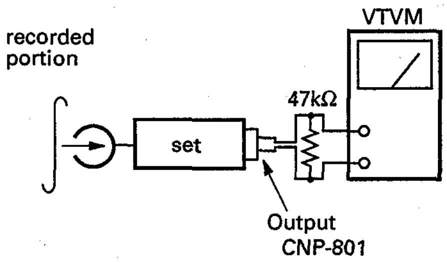
Setting :
REC LEVEL control : Standard Record (See page 4).
Test pin CNP-901 : Short

Procedure :

1. Mode : record


AF OSC
attenuator
10kΩ
600Ω
set
blank tape
CS-123
Input
CN906
⑤pin:L-ch
①pin:R-ch
③pin:GND
315Hz, 24.5mV (–30dB)

2. Mode : FWD playback


recorded
portion
set
47kΩ
VTVM
Output
CNP-801

Adjustment Location : MAIN board

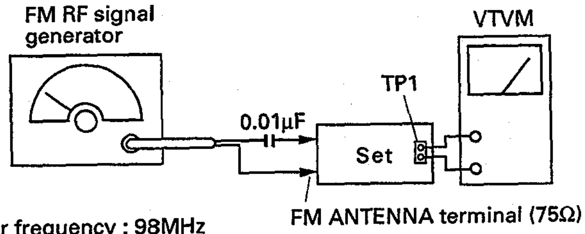
3. Playback the signal recorded in step 1.
Confirm that the signal leve is within the adjustment limits below.
If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the steps given above.

Adjustment Limits : –22.7dB±0.5dB

TUNER SECTION

As FM FRONT-END FE301 is difficult to repair if faulty, replace it with new one.

FM NULL Adjustment

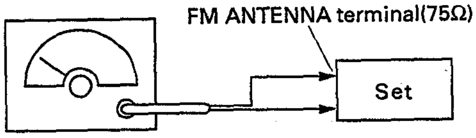

FM RF signal generator
VTVM
TP1
0.01μF
Set
FM ANTENNA terminal (75Ω)

Carrier frequency : 98MHz
Output level : 1mV (60dBμ)
Modulation : 1kHz, 75kHz deviation

Procedure :

1. Tune the set to 98MHz.
2. Adjust T301 for 0V reading on the VTVM.

FM Tuned Level Adjustment

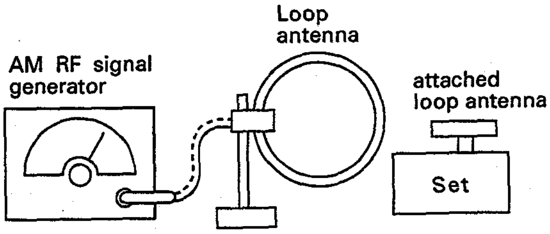

FM ANTENNA terminal(75Ω)
Set

Carrier frequency : 98MHz
Output level : 0.018mV (25dBμ)
Modulation : 1kHz, 75kHz deviation

Procedure :

1. Tune the set to 98MHz.
2. Adjust RV302 to the point where "TUNED" sign on FL601 just turns light.

• AM SECTION


Loop antenna
AM RF signal generator
attached loop antenna
Set

Carrier frequency : 216MHz
Modulation : 400Hz, 30% modulation

AM Tuned Level Adjustment

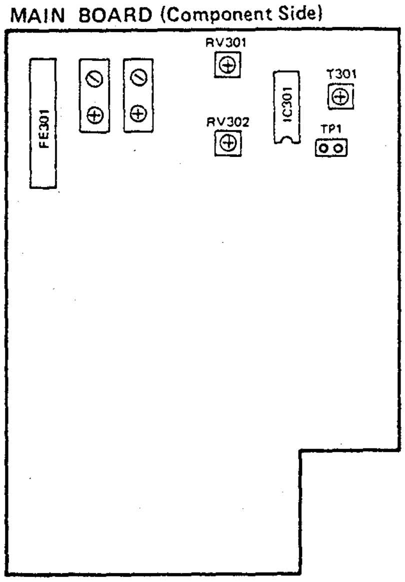
• MW BAND

1. Set loop antenna input level to 0.56mV (78dBμ/m) and no signal tuned light should not on.
2. Adjust RV301 to the point where "TUNED" sign on FL601 just turns light.

• LW BAND

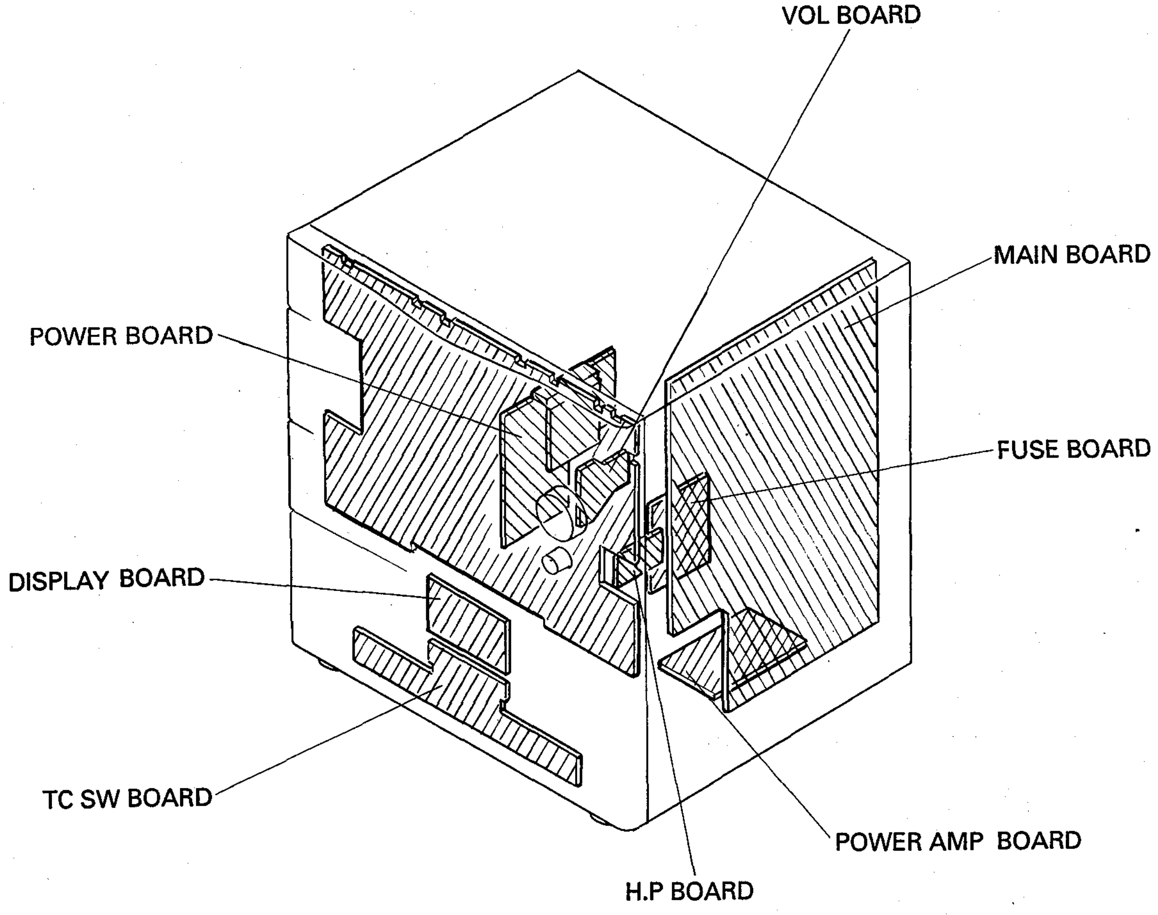
1. Tune the set to 216kHz.
2. Confirm that the loop antenna input level of 2.5mV (80dBμ/m) and no signal should not auto stop.

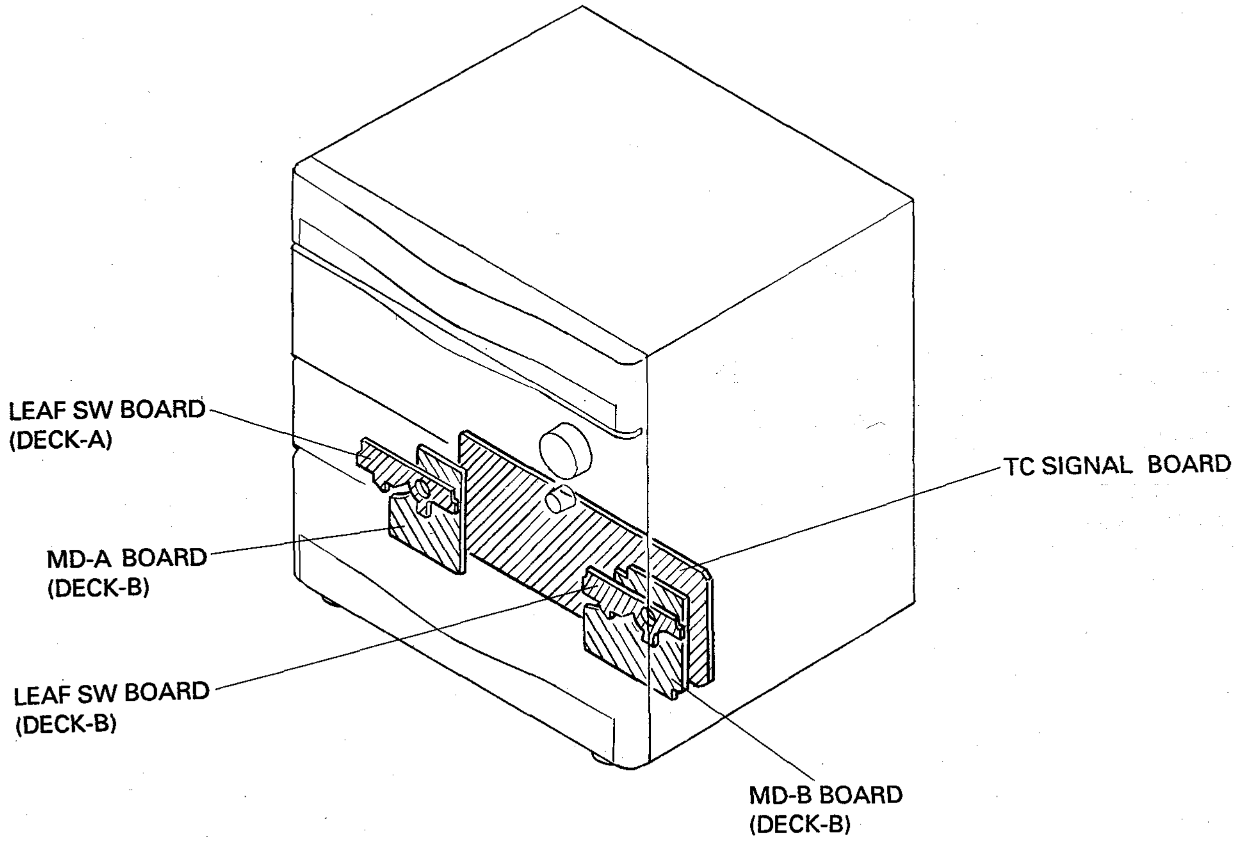
Adjustment Location :


MAIN BOARD (Component Side)
RV301
T301
RV302
IC301
TP1
FE301

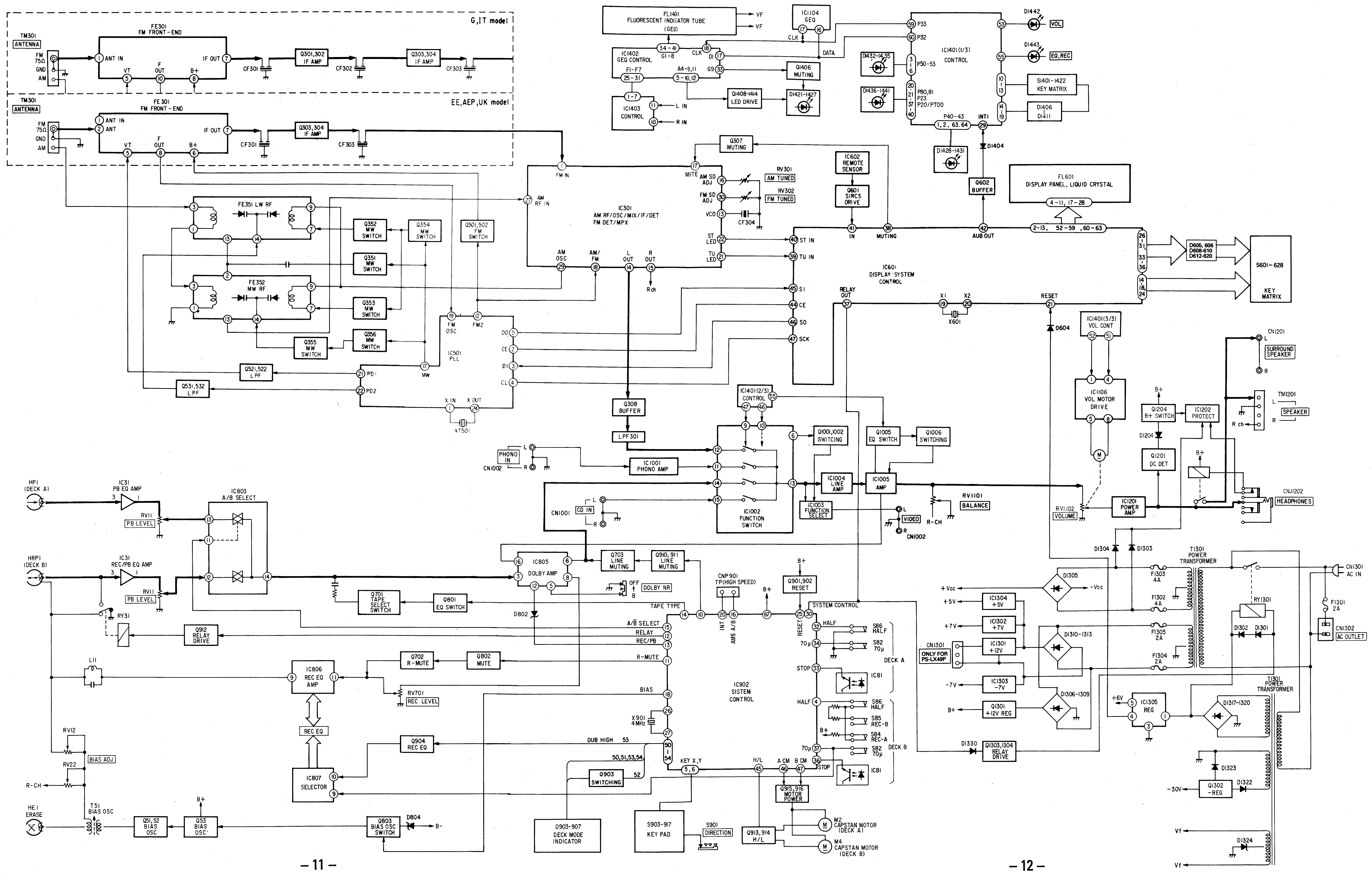
SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION


VOL BOARD
MAIN BOARD
POWER BOARD
FUSE BOARD
DISPLAY BOARD
TC SW BOARD
POWER AMP BOARD
H.P BOARD

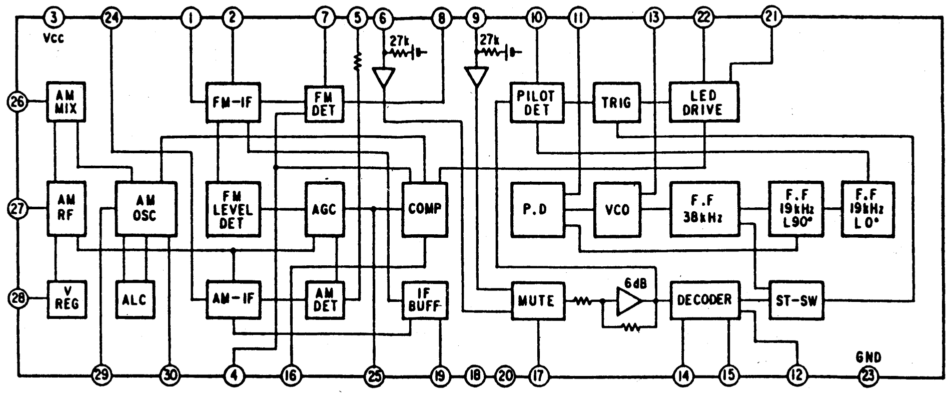

LEAF SW BOARD
(DECK-A)
TC SIGNAL BOARD
MD-A BOARD
(DECK-B)
LEAF SW BOARD
(DECK-B)
MD-B BOARD
(DECK-B)

3-2. BLOCK DIAGRAM

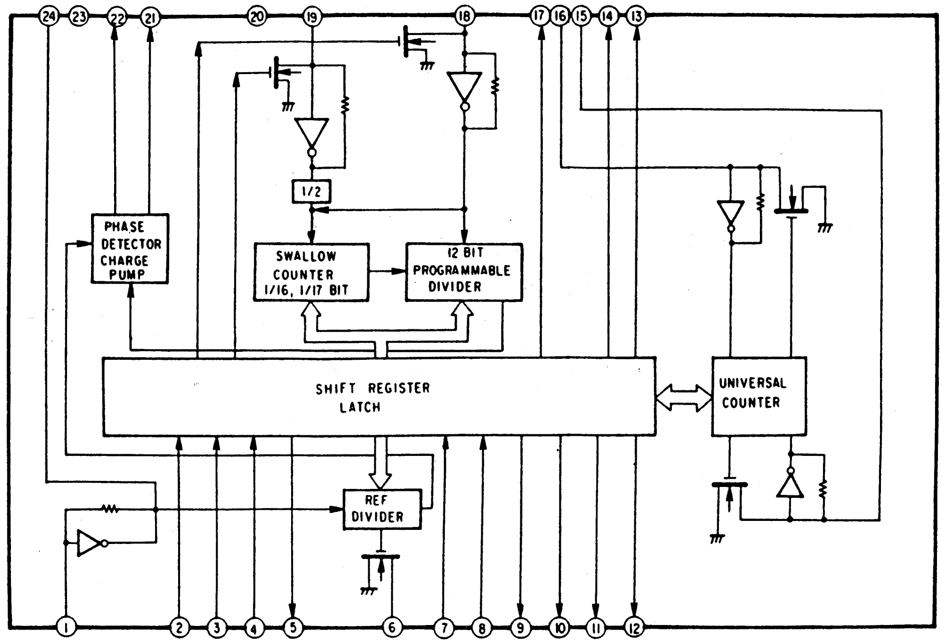

G,IT model
TM301
ANTENNA
FM 75Ω
GND
AM
FE301
FM FRONT-END
ANT IN
VT
F OUT
B+
IF OUT
CF301
Q301,302 IF AMP
CF302
Q303,304 IF AMP
CF303
EE,AEP,UK model
FE301 FM FRONT-END
ANT
Q303,304 IF AMP
FE351 LW RF
FE352 MW RF
Q352 MW SWITCH
Q354 MW SWITCH
Q351 MW SWITCH
Q353 MW SWITCH
Q356 MW SWITCH
Q355 MW SWITCH
Q501,502 FM SWITCH
Q521,522 LPF
Q531,532 LPF
IC501 PLL
FM OSC
FM2
MW
PD1
PD2
X IN
X OUT
XT501
DO
CE
DI
CL
IC301
AM RF/OSC/MIX/IF/DET
FM DET/MPX
FM IN
AM RF IN
MUTE
AM SD ADJ
FM SD ADJ
VCO
ST LED
TU LED
AM OSC
AM/FM
L OUT
R OUT
R ch
RV301 AM TUNED
RV302 FM TUNED
CF304
Q307 MUTING
FL1411
FLUORESCENT INDICATOR TUBE (GEQ)
VF
IC1104 GEQ
CLK
DATA
IC1402 GEQ CONTROL
G1-8
A4-9,11
F1-F7
G9
IC1403 CONTROL
L IN
R IN
Q1406 MUTING
Q1408-1414 LED DRIVE
D1421-1427
D1432-1435
D1436-1441
IC1401(1/3) CONTROL
P33
P32
P50-53
P80,81
P23
P20/PT00
P40-43
INT1
D1442 VOL
D1443 EQ,REC
S1401-1422 KEY MATRIX
D1406 D1411
D1428-1431
D1404
Q602 BUFFER
IC602 REMOTE SENSOR
Q601 SIRCS DRIVE
FL601 DISPLAY PANEL, LIQUID CRYSTAL
IC601 DISPLAY SYSTEM CONTROL
IN
MUTING
AUB OUT
ST IN
TU IN
SI
CE
SO
SCK
RELAY OUT
X1
X2
X601
RESET
D605, 606 D608-610 D612-620
S601-628 KEY MATRIX
D604
IC1401(3/3) VOL CONT
IC1106 VOL MOTOR DRIVE
CN1201
SURROUND SPEAKER
TM1201
SPEAKER
R ch
Q1204 B+ SWITCH
IC1202 PROTECT
D1204
Q1201 DC DET
CNJ1202
HEADPHONES
IC1201 POWER AMP
RV1102 VOLUME
RV1101 BALANCE
Q308 BUFFER
LPF301
PHONO IN
CN1002
IC1001 PHONO AMP
IC1401(2/3) CONTROL
Q1001,1002 SWITCHING
Q1005 EQ SWITCH
Q1006 SWITCHING
IC1004 LINE AMP
IC1005 AMP
IC1003 FUNCTION SELECT
IC1002 FUNCTION SWITCH
CN1001
CD IN
VIDEO
R-CH
HP1 (DECK A)
IC31 PB EQ AMP
RV11 PB LEVEL
IC803 A/B SELECT
HRP1 (DECK B)
IC31 REC/PB EQ AMP
RV11 PB LEVEL
RY31
IC805 DOLBY AMP
Q703 LINE MUTING
Q910,911 LINE MUTING
OFF
DOLBY NR
Q701 TAPE SELECT SWITCH
Q801 EQ SWITCH
D802
Q912 RELAY DRIVE
L11
IC806 REC EQ AMP
REC EQ
IC807 SELECTOR
Q702 R-MUTE
Q802 MUTE
RV701 REC LEVEL
Q904 REC EQ
Q903 SWITCHING
RV12
RV22
BIAS ADJ
R-CH
HE1 ERASE
T51 BIAS OSC
Q51,52 BIAS OSC
Q53 BIAS OSC
Q803 BIAS OSC SWITCH
D804
CNP901 TP(HIGH SPEED)
B+
Q901,902 RESET
SYSTEM CONTROL
TAPE TYPE
A/B SELECT
RELAY
REC/PB
R-MUTE
BIAS
X901 4MHz
DUB HIGH 53
50,51,53,54
KEY X,Y
H/L
A CM
B CM
INT
AMS A/B
RESET
IC902 SISTEM CONTROL
HALF
70μ
STOP
S86 HALF
S82 70μ
DECK A
IC81
S85 REC-B
S84 REC-A
DECK B
Q915,916 MOTOR POWER
M2 CAPSTAN MOTOR (DECK A)
M4 CAPSTAN MOTOR (DECK B)
Q913,914 H/L
D903-907 DECK MODE INDICATOR
S903-917 KEY PAD
S901 DIRECTION
D1304
D1303
T1301 POWER TRANSFORMER
CN1301 AC IN
D1305
+Vcc
-Vcc
F1303 4A
F1302 4A
RY1301
F1301 2A
CN1302 AC OUTLET
+5V
IC1304 +5V
+7V
IC1302 +7V
CN1301 ONLY FOR PS-LX49P
IC1301 +12V
D1310-1313
F1305 2A
F1304 2A
D1302
D1301
-7V
IC1303 -7V
D1306-1309
Q1301 +12V REG
+6V
IC1305 REG
D1317-1320
D1330
Q1303,1304 RELAY DRIVE
D1323
-30V
Q1302 -REG
D1322
Vf
D1324

3-3. IC BLOCK DIAGRAMS

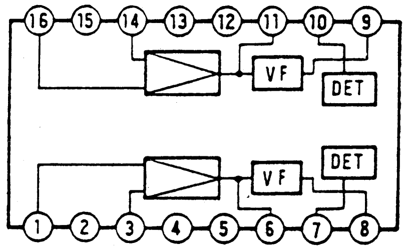
IC301 LA1851N


③ Vcc
㉔
①
②
⑦⑤⑥
⑧
⑨
⑩
⑪
⑬
㉒
㉑
27k
27k
㉖
AM MIX
FM-IF
FM DET
PILOT DET
TRIG
LED DRIVE
㉗
AM RF
AM OSC
FM LEVEL DET
AGC
COMP
P.D
VCO
F.F 38kHz
F.F 19kHz L90°
F.F 19kHz L0°
㉘
V REG
ALC
AM-IF
AM DET
IF BUFF
MUTE
6dB
DECODER
ST-SW
㉙ ㉚ ④ ⑯ ㉕ ⑲ ⑱ ⑳ ⑰ ⑭ ⑮ ⑫
GND ㉓

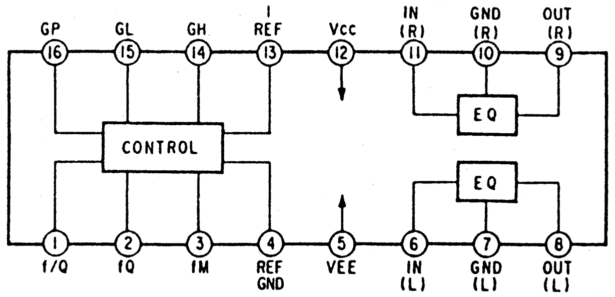
IC501 LC7218


㉔ ㉓ ㉒ ㉑ ⑳ ⑲ ⑱ ⑰ ⑯ ⑮ ⑭ ⑬
1/2
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 BIT
12 BIT PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
REF DIVIDER
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

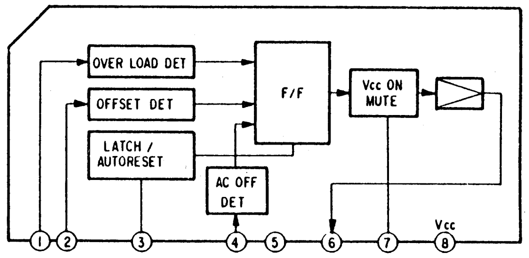
IC805 CXA1100P


⑯ ⑮ ⑭ ⑬ ⑫ ⑪ ⑩ ⑨
VF
DET
VF
DET
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

IC806 CXA1198AP

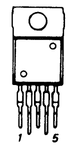

GP ⑯
GL ⑮
GH ⑭
I REF ⑬
Vcc ⑫
IN (R) ⑪
GND (R) ⑩
OUT (R) ⑨
CONTROL
EQ
EQ
① f/Q
② fQ
③ fM
④ REF GND
⑤ VEE
⑥ IN (L)
⑦ GND (L)
⑧ OUT (L)

IC1202 μ1237HA

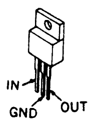

OVER LOAD DET
OFFSET DET
LATCH / AUTORESET
AC OFF DET
F/F
Vcc ON MUTE
Vcc
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

3-4. SEMICONDUCTOR LEAD LAYOUTS

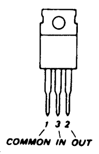
L78MR06



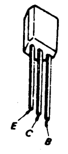
M5F7805L
M5F7807
M5F7812L



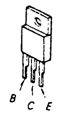
M5F7907


1 2 3
COMMON IN OUT

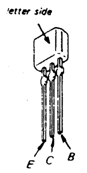
DTA114ES
DTA124ES
DTC114ES
DTC124ES
DTC143TS
2SC2669-OY
2SC3622A-LK



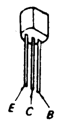
2SD2012



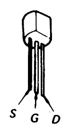
2SA1175-HFE
2SC2785-HFE



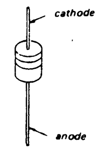
2SB1068-K
2SC945-P
2SC3112-B



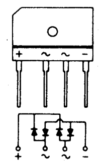
2SK246GR3



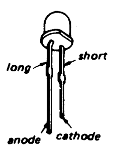
HZS6B1L
HZS7C2L
HZS33-1L
1N4148M
11ES2


cathode
anode

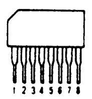
RBA-402



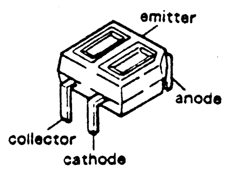
SEL2210S
SEL2410E-D
SEL2810A-C


long
short
anode
cathode

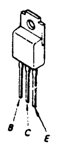
μPC1237HA



NJL5165K-B


emitter
anode
collector
cathode

2SB1375



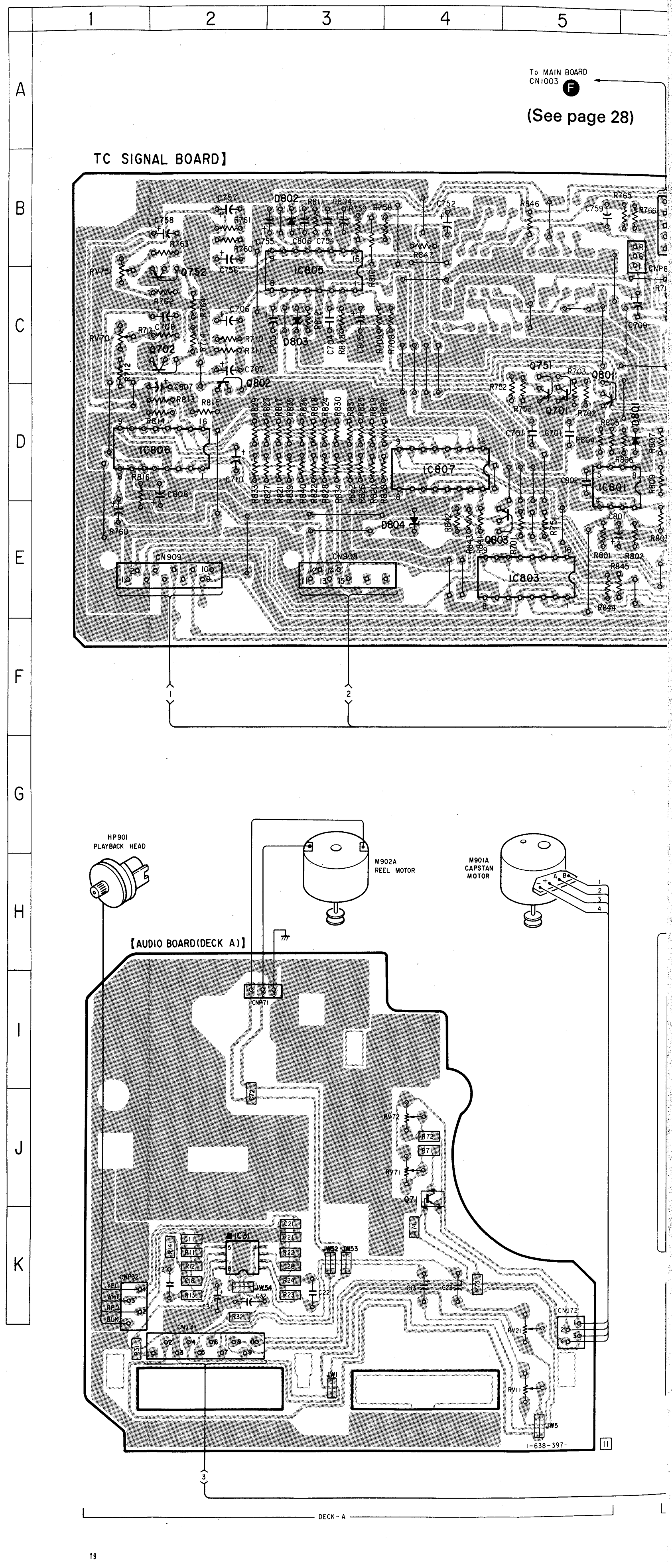
3-5. PRINTED WIRING BOARDS – TC SECTION –

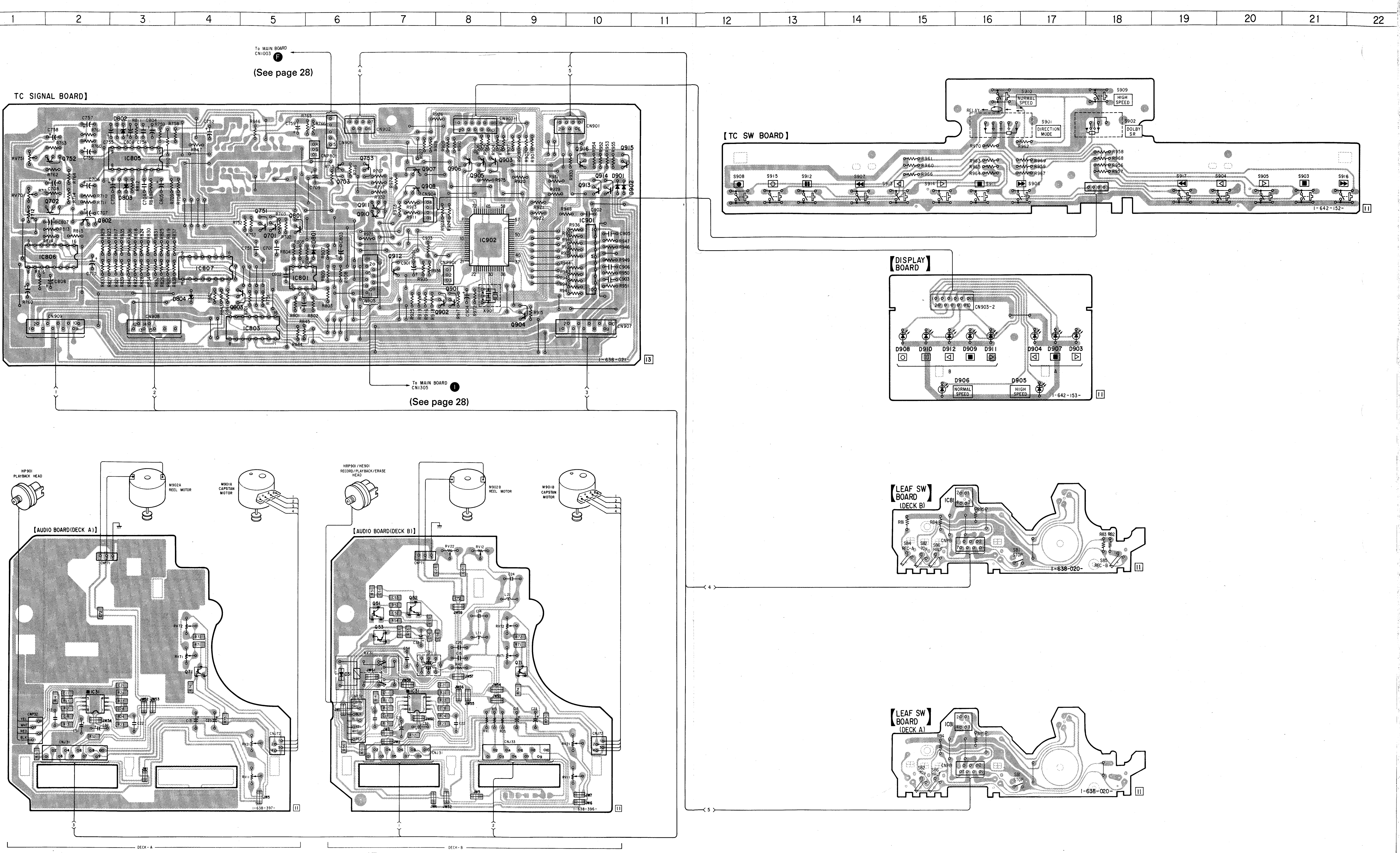
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D31	J-6	Q51	I-7
D801	D-6	Q52	I-7
D802	B-3	Q53	J-7
D803	C-3	Q71	J-4 (MD-A)
D804	E-4	Q71	J-9 (MD-B)
D901	C-10	Q701	D-5
D902	C-10	Q702	C-2
D903	E-17	Q703	C-6
D904	E-17	Q751	D-5
D905	F-17	Q752	C-2
D906	F-15	Q753	C-6
D907	E-17	Q801	D-5
D908	E-15	Q802	C-2
D909	E-16	Q803	E-4
D910	E-15	Q901	E-8
D911	E-16	Q902	E-8
D912	E-15	Q903	C-8
		Q904	E-9
IC31	K-2 (MD-A)	Q905	C-8
IC31	K-7 (MD-B)	Q906	C-8
IC81	K-16 (DECK A)		
IC81	H-16 (DECK B)	Q907	C-7
IC801	D-5	Q908	C-7
		Q910	C-7
IC803	E-5	Q911	C-7
IC805	C-3	Q912	D-7
IC806	D-2		
IC807	D-4	Q913	C-10
IC901	D-10	Q914	C-10
		Q915	C-10
IC902	D-8	Q916	C-10

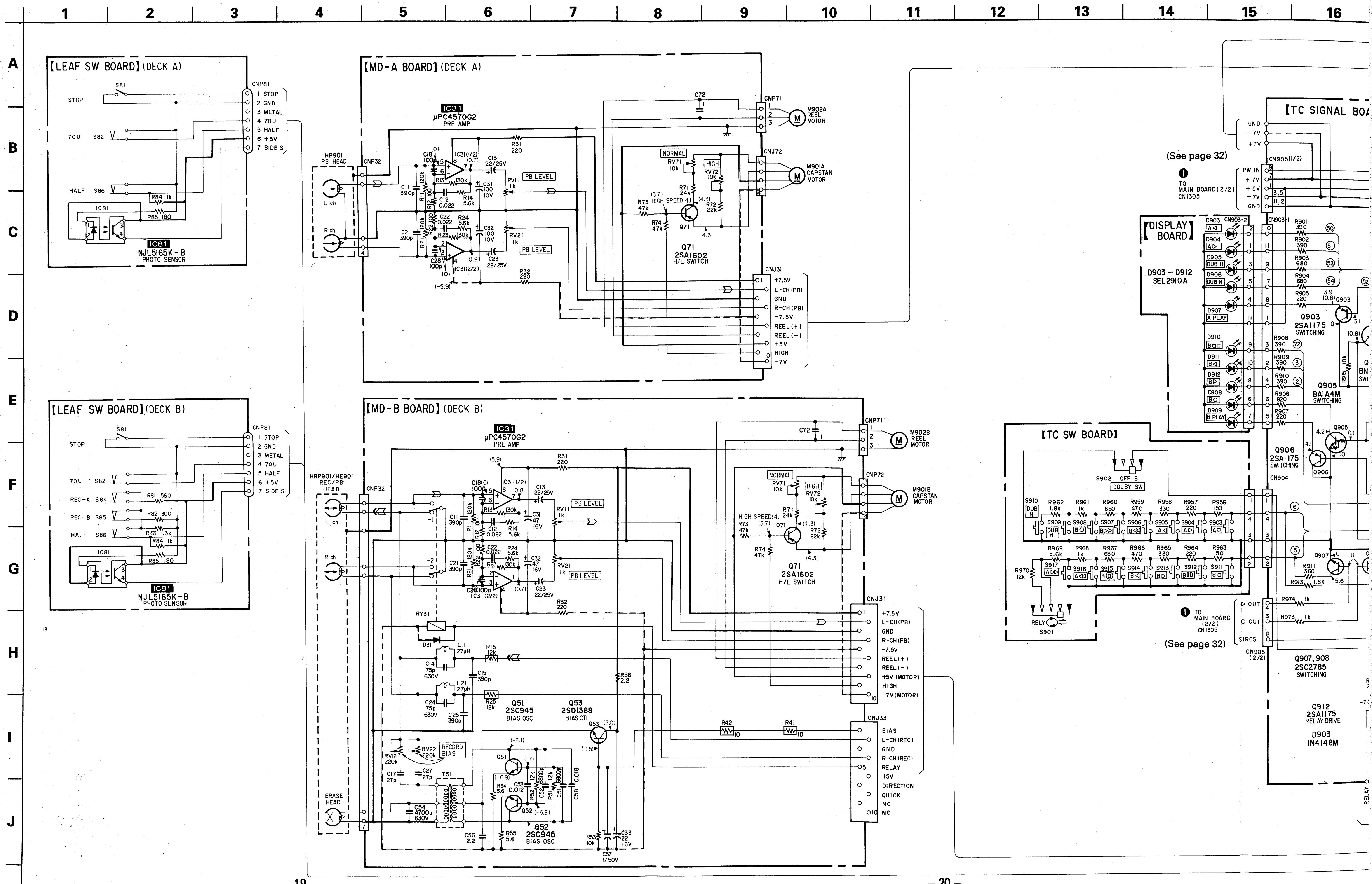
Note:
- o——: Indicated a lead wire mounted on the component side
- ■ : Parts mounted on the conductor side
- ⌜⌝ : Indicates side identified with part number
- ● : Through hole
- ▒ : Pattern from the side which enables seeing

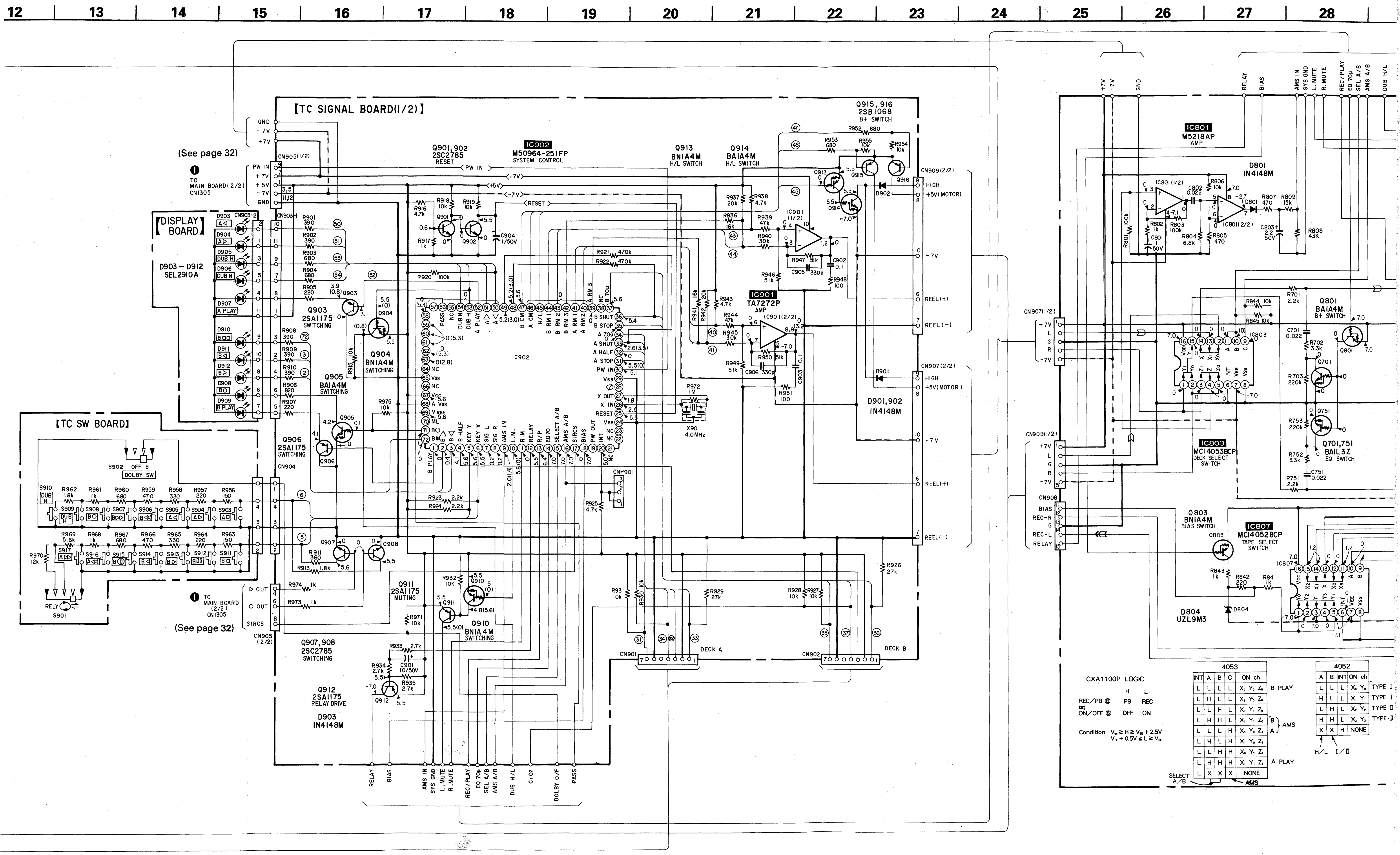
- G : Germany Model
- IT : Italian Model
- EE : East European Model


1
2
3
4
5
A
B
C
D
E
F
G
H
I
J
K
To MAIN BOARD CN1003 F
(See page 28)
TC SIGNAL BOARD]
IC805
IC806
IC807
IC801
IC803
CN909
CN908
HP901 PLAYBACK HEAD
M902A REEL MOTOR
M901A CAPSTAN MOTOR
[AUDIO BOARD(DECK A)]
IC31
CNP71
CNP32
CNJ72
1-638-397-
11
DECK - A
19


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
To MAIN BOARD CN1003 F
(See page 28)
TC SIGNAL BOARD
IC805
IC806
IC807
IC801
IC803
IC902
IC901
CN901
CN902
CN903
CN904
CN905
CN906
CN907
CN908
CN909
CNP801
CNP901
1-638-021-
13
To MAIN BOARD CN1305 I
(See page 28)
TC SW BOARD
S910 NORMAL SPEED
S909 HIGH SPEED
RELAY
S901 DIRECTION MODE
S902 DOLBY SR
S908
S915
S912
S907
S913
S914
S911
S906
S917
S904
S905
S903
S916
1-642-152-
11
DISPLAY BOARD
CN903-2
D908
D910
D912
D909
D911
D904
D907
D903
D906 NORMAL SPEED
D905 HIGH SPEED
1-642-153-
11
LEAF SW BOARD (DECK B)
IC81
CNP81
S84 REC-A
S82 TD
S86 HALF
S81 STOP
S85 REC-B
1-638-020-
11
LEAF SW BOARD (DECK A)
IC81
CNP81
S82 TD
S86 HALF
S81 STOP
1-638-020-
11
HRP901 PLAYBACK HEAD
M902A REEL MOTOR
M901A CAPSTAN MOTOR
AUDIO BOARD (DECK A)
IC31
CNP71
CNP32
CNJ31
CNJ72
1-638-397-
11
HRP901/HE901 RECORD/PLAYBACK/ERASE HEAD
M902B REEL MOTOR
M901B CAPSTAN MOTOR
AUDIO BOARD (DECK B)
IC31
CNP71
CNJ31
CNJ33
CNJ72
1-638-396-
11
DECK-A
DECK-B

3-6. SCHEMATIC DIAGRAM - TC SECTION -


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
【LEAF SW BOARD】(DECK A)
S81
STOP
70U S82
HALF S86
IC81
R84 1k
R85 180
IC81
NJL5165K-B
PHOTO SENSOR
CNP81
1 STOP
2 GND
3 METAL
4 70U
5 HALF
6 +5V
7 SIDE S
【MD-A BOARD】(DECK A)
IC31
μPC4570G2
PRE AMP
HP901
PB HEAD
L ch
R ch
CNP32
C72
CNP71
M902A
REEL
MOTOR
CNJ72
M901A
CAPSTAN
MOTOR
R31
220
C13
22/25V
PB LEVEL
RV11
1k
RV21
1k
C31
100
10V
C32
100
10V
C23
22/25V
R32
220
NORMAL
RV71
10k
HIGH
RV72
10k
R71
24k
R72
22k
R73
47k
HIGH SPEED 4.1
R74
47k
Q71
2SA1602
H/L SWITCH
CNJ31
+7.5V
L-CH(PB)
GND
R-CH(PB)
-7.5V
REEL(+)
REEL(-)
+5V
HIGH
-7V
【LEAF SW BOARD】(DECK B)
S81
STOP
70U S82
REC-A S84
REC-B S85
HALF S86
R81 560
R82 300
R83 1.3k
R84 1k
R85 180
IC81
NJL5165K-B
PHOTO SENSOR
CNP81
1 STOP
2 GND
3 METAL
4 70U
5 HALF
6 +5V
7 SIDE S
【MD-B BOARD】(DECK B)
IC31
μPC4570G2
PRE AMP
HRP901/HE901
REC/PB
HEAD
L ch
R ch
ERASE
HEAD
CNP32
C72
CNP71
M902B
REEL
MOTOR
CNP72
M901B
CAPSTAN
MOTOR
R31
220
PB LEVEL
RV11
1k
RV21
1k
R32
220
NORMAL
RV71
10k
HIGH
RV72
10k
HIGH SPEED:4.1
R71
24k
R73
47k
R74
47k
Q71
2SA1602
H/L SWITCH
RY31
D31
L11
27μH
L21
27μH
R15
12k
R25
12k
C14
75p
630V
C24
75p
630V
C15
390p
C25
390p
RV12
220k
RV22
220k
RECORD
BIAS
C17
27p
C27
27p
T51
C54
4700p
630V
C56
2.2
R55
5.6
Q51
2SC945
BIAS OSC
Q52
2SC945
BIAS OSC
Q53
2SD1388
BIAS CTL
R56
2.2
R53
10k
C57
1/50V
C33
22
16V
R42
10
R41
10
CNJ31
+7.5V
L-CH(PB)
GND
R-CH(PB)
-7.5V
REEL(+)
REEL(-)
+5V (MOTOR)
HIGH
-7V (MOTOR)
CNJ33
BIAS
L-CH(REC)
GND
R-CH(REC)
RELAY
+5V
DIRECTION
QUICK
NC
NC
(See page 32)
TO
MAIN BOARD(2/2)
CN1305
GND
-7V
+7V
【TC SIGNAL BOA
CN905(1/2)
PW IN
+7V
+5V
-7V
GND
【DISPLAY BOARD】
D903 - D912
SEL2910A
CN903-2
CN903-1
R901 390
R902 390
R903 680
R904 680
R905 220
Q903
2SA1175
SWITCHING
R908 390
R909 390
R910 390
R906 820
R907 220
R915 10k
Q905
BA1A4M
SWITCHING
Q906
2SA1175
SWITCHING
CN904
【TC SW BOARD】
S902 OFF B
DOLBY SW
S910
R962 1.8k
R961 1k
R960 680
R959 470
R958 330
R957 220
R956 150
R969 5.6k
R968 1k
R967 680
R966 470
R965 330
R964 220
R963 150
R970 12k
RELY
S901
TO
MAIN BOARD
(2/2)
CN1305
(See page 32)
OUT
OUT
SIRCS
CN905
(2/2)
R974 1k
R973 1k
R911 360
R913 1.8k
Q907,908
2SC2785
SWITCHING
Q912
2SA1175
RELAY DRIVE
D903
1N4148M


12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
【TC SIGNAL BOARD(1/2)】
【DISPLAY】 BOARD
【TC SW BOARD】
(See page 32)
TO MAIN BOARD(2/2) CN1305
TO MAIN BOARD (2/2) CN1305
GND
-7V
+7V
PW IN
+5V
CN905(1/2)
CN905 (2/2)
CN903-1
CN903-2
CN904
D903 – D912 SEL2910A
Q901,902 2SC2785 RESET
IC902 M50964-251FP SYSTEM CONTROL
Q913 BN1A4M H/L SWITCH
Q914 BA1A4M H/L SWITCH
Q915, 916 2SB1068 B+ SWITCH
IC901 TA7272P AMP
Q903 2SA1175 SWITCHING
Q904 BN1A4M SWITCHING
Q905 BA1A4M SWITCHING
Q906 2SA1175 SWITCHING
Q907,908 2SC2785 SWITCHING
Q910 BN1A4M SWITCHING
Q911 2SA1175 MUTING
Q912 2SA1175 RELAY DRIVE
D903 1N4148M
D901,902 1N4148M
X901 4.0MHz
S902 OFF B DOLBY SW
RELY S901
CN909(2/2)
CN907(2/2)
HIGH
+5V(MOTOR)
REEL(+)
REEL(-)
CN901
CN902
DECK A
DECK B
CNP901
RELAY
BIAS
AMS IN
SYS GND
L. MUTE
R. MUTE
REC/PLAY
EQ 70μ
SEL A/B
AMS A/B
DUB H/L
Cr O2
DOLBY O/F
PASS
IC801 M5218AP AMP
D801 1N4148M
Q801 BA1A4M B+ SWITCH
IC803 MC14053BCP DECK SELECT SWITCH
Q701,751 BA1L3Z EQ SWITCH
Q803 BN1A4M BIAS SWITCH
IC807 MC14052BCP TAPE SELECT SWITCH
D804 UZL9M3
CN907(1/2)
CN909(1/2)
CN908
REC-R
REC-L

CXA1100P LOGIC

	H	L
REC/PB ⑫	PB	REC
ᴅᴏʟʙʏ ON/OFF ⑤	OFF	ON

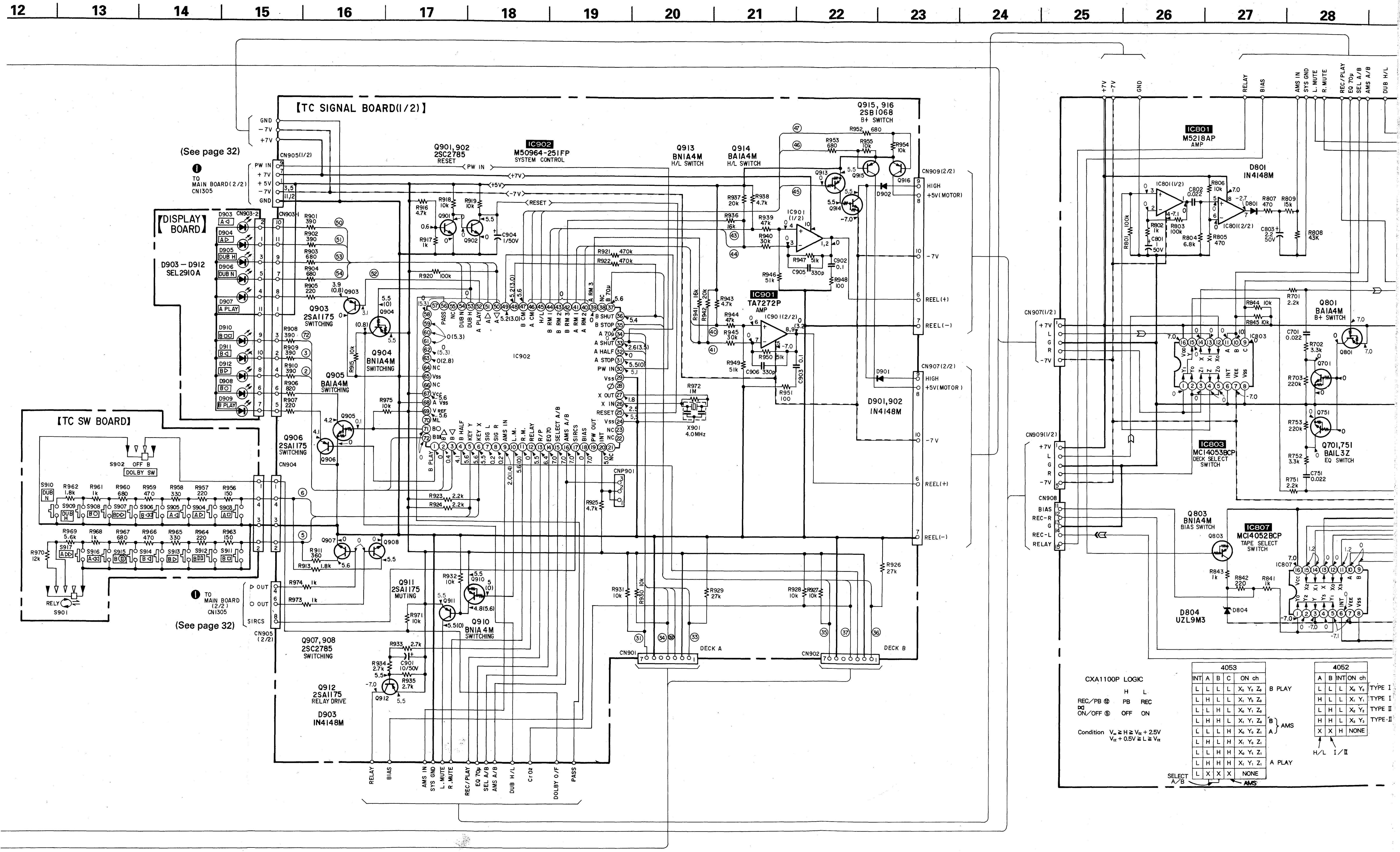
Condition $V_{cc} \geq H \geq V_{EE} + 2.5V$
$V_{EE} + 0.5V \geq L \geq V_{EE}$

4053					
INT	A	B	C	ON ch	
L	L	L	L	X_0 Y_0 Z_0	B PLAY
L	H	L	L	X_1 Y_0 Z_0	
L	L	H	L	X_0 Y_1 Z_0	
L	H	H	L	X_1 Y_1 Z_0	B } AMS
L	L	L	H	X_0 Y_0 Z_1	A } AMS
L	H	L	H	X_1 Y_0 Z_1	
L	L	H	H	X_0 Y_1 Z_1	
L	H	H	H	X_1 Y_1 Z_1	A PLAY
L	X	X	X	NONE	

SELECT A/B
AMS

4052				
A	B	INT	ON ch	
L	L	L	X_0 Y_0	TYPE I
H	L	L	X_1 Y_1	TYPE I
L	H	L	X_2 Y_2	TYPE II
H	H	L	X_3 Y_3	TYPE II
X	X	H	NONE	

H/L I/II



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【TC SIGNAL BOARD(1/2)】
【DISPLAY BOARD】
【TC SW BOARD】
(See page 32)
TO MAIN BOARD(2/2) CN1305
CN905(1/2)
CN905 (2/2)
CN903-1
CN903-2
CN904
D903 – D912 SEL2910A
S901 RELY
S902 OFF B DOLBY SW
IC902 M50964-251FP SYSTEM CONTROL
IC901 TA7272P AMP
Q901,902 2SC2785 RESET
Q903 2SA1175 SWITCHING
Q904 BN1A4M SWITCHING
Q905 BA1A4M SWITCHING
Q906 2SA1175 SWITCHING
Q907,908 2SC2785 SWITCHING
Q910 BN1A4M SWITCHING
Q911 2SA1175 MUTING
Q912 2SA1175 RELAY DRIVE
D903 1N4148M
Q913 BN1A4M H/L SWITCH
Q914 BA1A4M H/L SWITCH
Q915, 916 2SB1068 B+ SWITCH
D901,902 1N4148M
X901 4.0MHz
CN909(2/2)
CN907(2/2)
CN901 DECK A
CN902 DECK B
HIGH
+5V(MOTOR)
-7V
REEL(+)
REEL(-)
RELAY
BIAS
AMS IN
SYS GND
L. MUTE
R. MUTE
REC/PLAY
EQ 70μ
SEL A/B
AMS A/B
DUB H/L
CrO2
DOLBY O/F
PASS
IC801 M5218AP AMP
D801 1N4148M
Q801 BA1A4M B+ SWITCH
IC803 MC14053BCP DECK SELECT SWITCH
Q701,751 BA1L3Z EQ SWITCH
Q803 BN1A4M BIAS SWITCH
IC807 MC14052BCP TAPE SELECT SWITCH
D804 UZL9M3
CN907(1/2)
CN909(1/2)
CN908
+7V
-7V
GND

CXA1100P LOGIC

	H	L
REC/PB ⑫	PB	REC
ᴅᴏʟʙʏ ON/OFF ⑤	OFF	ON

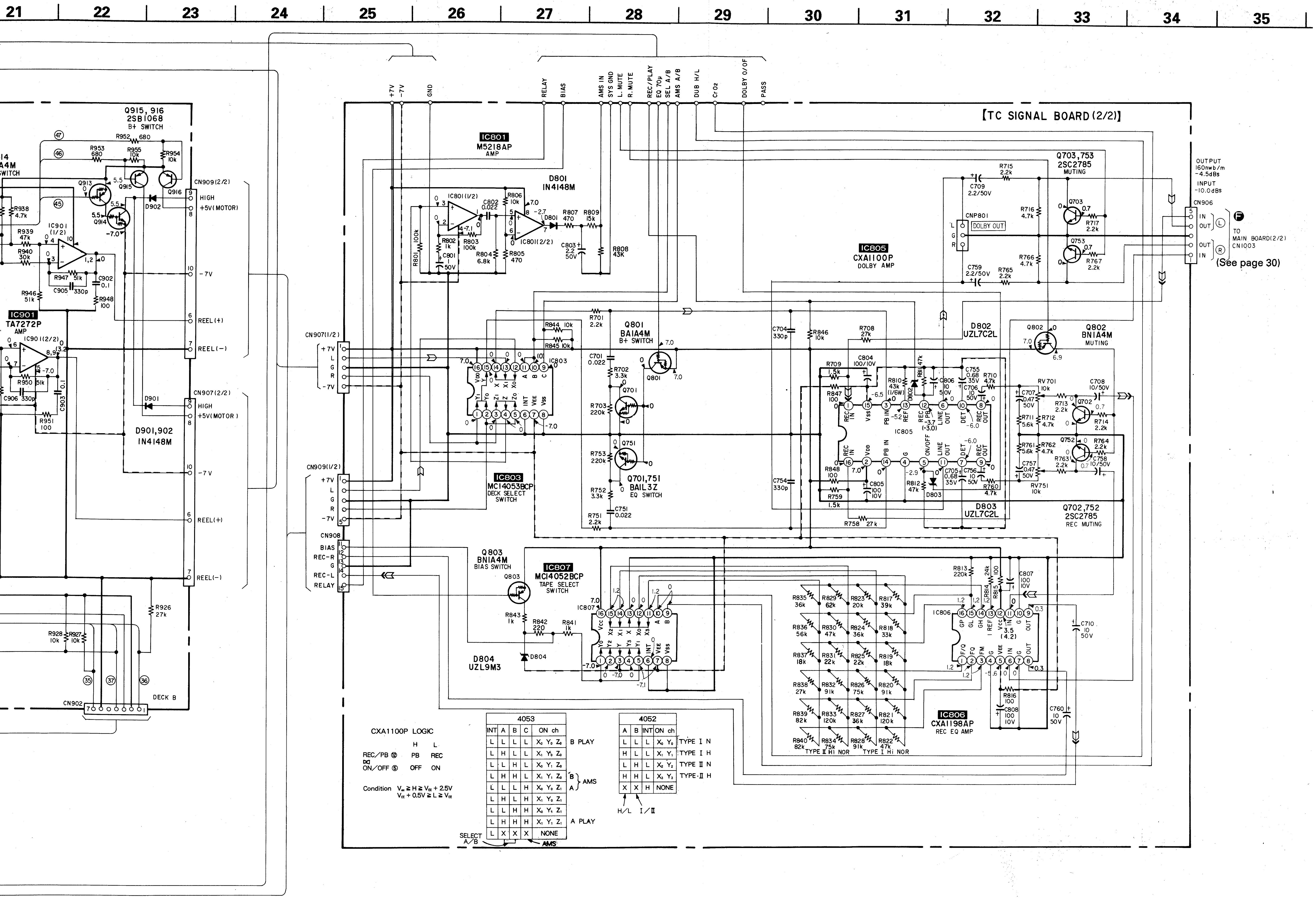
Condition $V_{cc} \geqq H \geqq V_{EE} + 2.5V$
$V_{EE} + 0.5V \geqq L \geqq V_{EE}$

4053					
INT	A	B	C	ON ch	
L	L	L	L	X_0 Y_0 Z_0	B PLAY
L	H	L	L	X_1 Y_0 Z_0	
L	L	H	L	X_0 Y_1 Z_0	
L	H	H	L	X_1 Y_1 Z_0	B } AMS
L	L	L	H	X_0 Y_0 Z_1	A } AMS
L	H	L	H	X_1 Y_0 Z_1	
L	L	H	H	X_0 Y_1 Z_1	
L	H	H	H	X_1 Y_1 Z_1	A PLAY
L	X	X	X	NONE	

SELECT A/B
AMS

4052				
A	B	INT	ON ch	
L	L	L	X_0 Y_0	TYPE I
H	L	L	X_1 Y_1	TYPE I
L	H	L	X_2 Y_2	TYPE II
H	H	L	X_3 Y_3	TYPE II
X	X	H	NONE	

H/L I/II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35
[TC SIGNAL BOARD (2/2)]
Q915, 916
2SB1068
B+ SWITCH
IC901
TA7272P
AMP
D901,902
1N4148M
CN909(2/2)
HIGH
+5V(MOTOR)
-7V
REEL(+)
REEL(-)
CN907(2/2)
CN907(1/2)
CN909(1/2)
CN908
BIAS
REC-R
REC-L
RELAY
CN902
DECK B
+7V
-7V
GND
RELAY
BIAS
AMS IN
SYS GND
L. MUTE
R. MUTE
REC/PLAY
EQ 70μ
SEL A/B
AMS A/B
DUB H/L
CrO2
DOLBY O/OF
PASS
IC801
M5218AP
AMP
D801
1N4148M
IC803
MC14053BCP
DECK SELECT
SWITCH
Q801
BA1A4M
B+ SWITCH
Q701,751
BA1L3Z
EQ SWITCH
IC805
CXA1100P
DOLBY AMP
D802
UZL7C2L
D803
UZL7C2L
Q802
BN1A4M
MUTING
Q703,753
2SC2785
MUTING
Q702,752
2SC2785
REC MUTING
CNP801
DOLBY OUT
OUTPUT
160nwb/m
-4.5dBs
INPUT
-10.0dBs
CN906
TO
MAIN BOARD(2/2)
CN1003
(See page 30)
Q803
BN1A4M
BIAS SWITCH
IC807
MC14052BCP
TAPE SELECT
SWITCH
D804
UZL9M3
IC806
CXA1198AP
REC EQ AMP
TYPE II Hi NOR
TYPE I Hi NOR

CXA1100P LOGIC

	H	L
REC/PB ⑫	PB	REC
ᗡᗡ ON/OFF ⑤	OFF	ON

Condition $V_{cc} \geqq H \geqq V_{EE} + 2.5V$
$V_{EE} + 0.5V \geqq L \geqq V_{EE}$

4053					
INT	A	B	C	ON ch	
L	L	L	L	X_0 Y_0 Z_0	B PLAY
L	H	L	L	X_1 Y_0 Z_0	
L	L	H	L	X_0 Y_1 Z_0	
L	H	H	L	X_1 Y_1 Z_0	B } AMS
L	L	L	H	X_0 Y_0 Z_1	A } AMS
L	H	L	H	X_1 Y_0 Z_1	
L	L	H	H	X_0 Y_1 Z_1	
L	H	H	H	X_1 Y_1 Z_1	A PLAY
L	X	X	X	NONE	

SELECT A/B
AMS

4052				
A	B	INT	ON ch	
L	L	L	X_0 Y_0	TYPE I N
H	L	L	X_1 Y_1	TYPE I H
L	H	L	X_2 Y_2	TYPE II N
H	H	L	X_3 Y_3	TYPE·II H
X	X	H	NONE	

H/L I/II

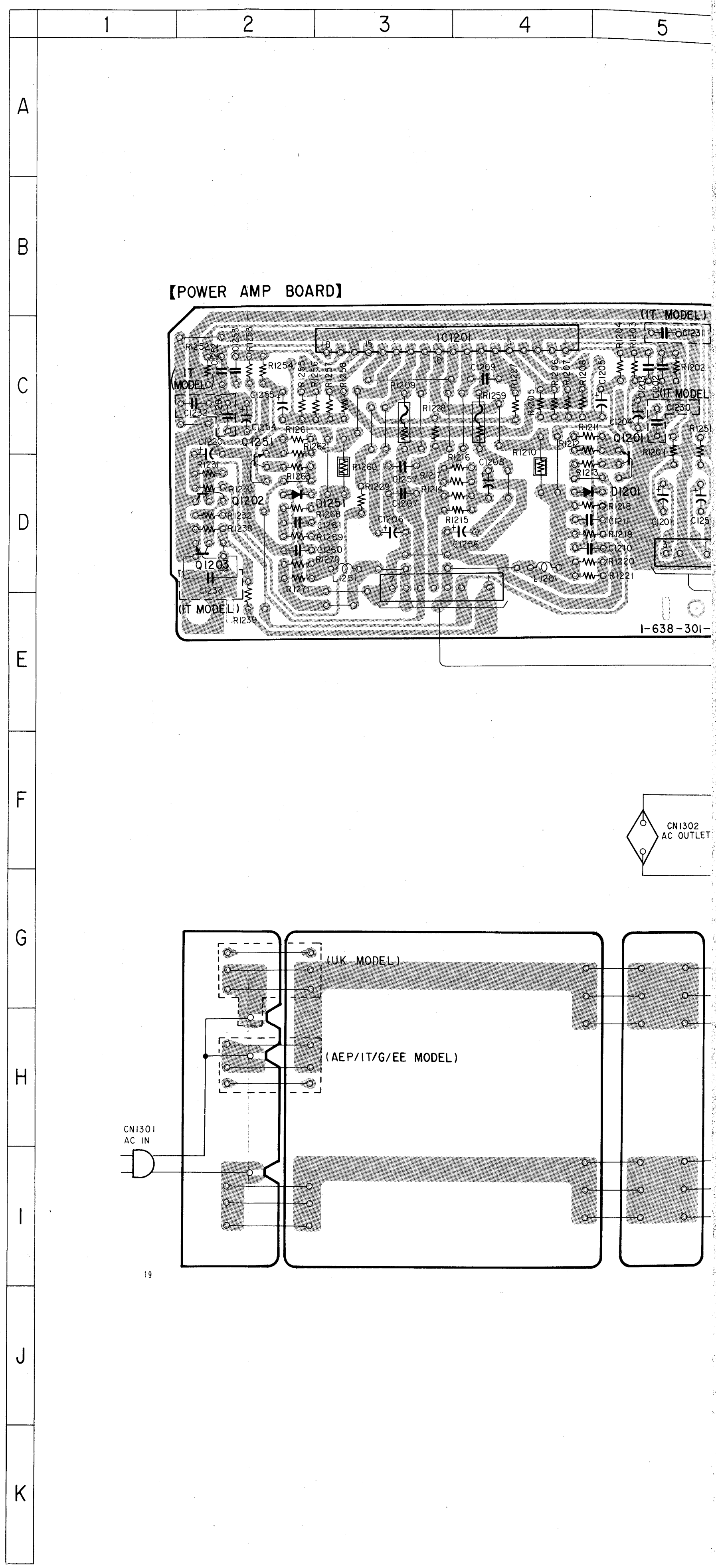
3-7. PRINTED WIRING BOARDS – MAIN SECTION –

● SEMICONDUCTOR LOCATION

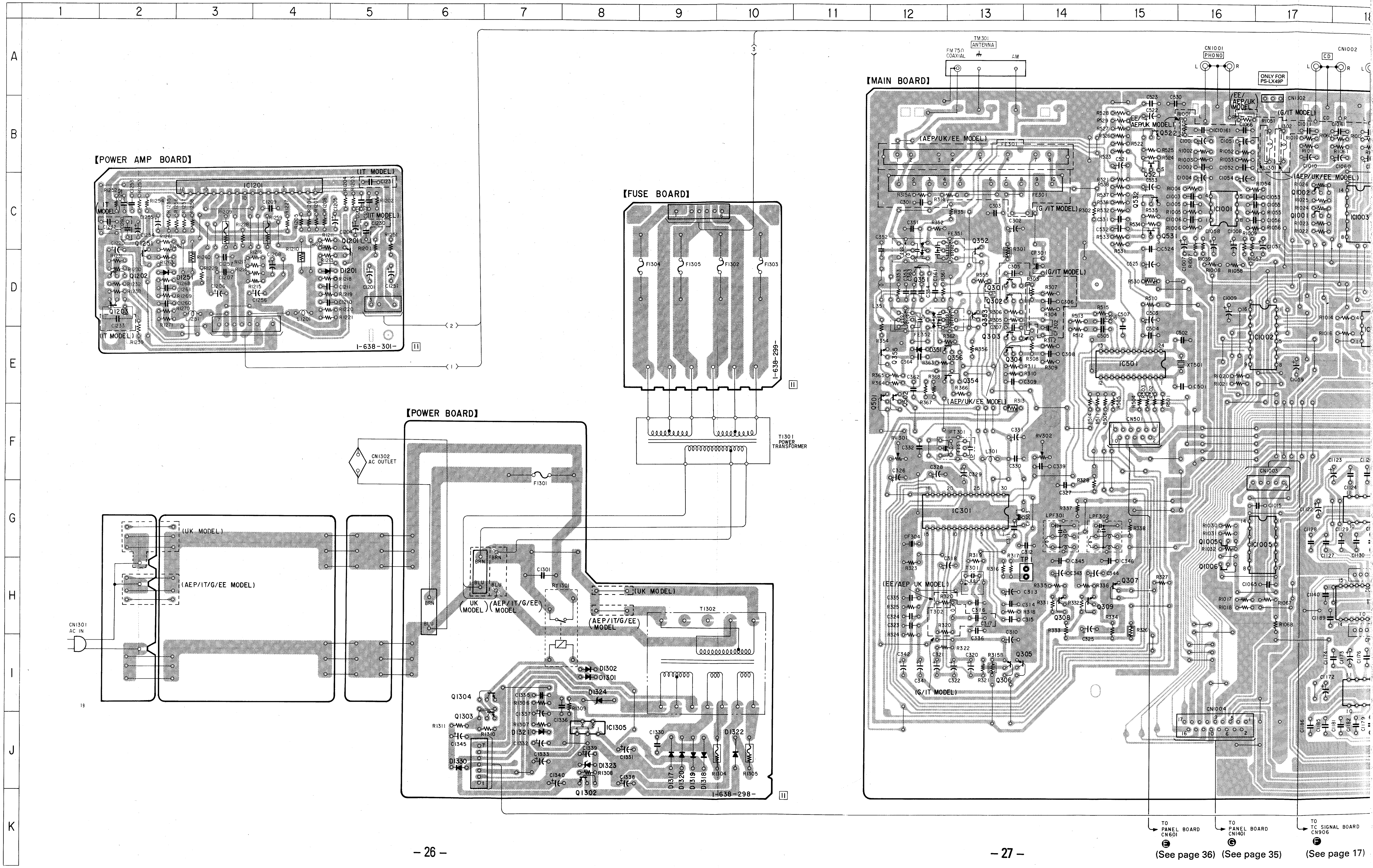
Ref. No.	Location	Ref. No.	Location
D351	E-12	IC1201	C-3
D1201	D-5	IC1202	E-24
D1202	B-24	IC1301	B-20
D1203	B-24	IC1302	E-22
D1204	E-23	IC1303	G-23
D1251	D-2	IC1304	F-22
D1301	I-8	IC1305	J-8
D1302	I-8		
D1303	C-22	Q301	D-13
D1304	C-22	Q302	D-13
		Q303	E-13
D1305	C-22	Q304	E-13
D1306	B-21	Q305	I-13
D1307	B-21		
D1308	B-21	Q306	I-13
D1309	B-21	Q307	H-15
		Q308	H-14
D1310	B-21	Q309	H-14
D1311	B-21	Q351	D-12
D1312	B-22		
D1313	B-22	Q352	D-13
D1314	D-21	Q353	D-13
		Q354	E-13
D1315	G-23	Q355	E-12
D1316	F-22	Q356	E-13
D1317	J-9		
D1318	J-9	Q501	E-12
D1319	J-9	Q502	E-12
		Q521	B-15
D1320	J-9	Q522	B-15
D1321	J-7	Q531	C-15
D1322	J-10		
D1323	J-8	Q532	C-15
D1324	I-8	Q1001	C-17
		Q1002	C-17
D1330	J-6	Q1004	C-18
D1331	F-21	Q1005	G-16
IC301	G-13	Q1006	H-16
IC501	E-15	Q1101	C-19
IC1001	C-16	Q1151	C-20
IC1002	E-17	Q1201	D-5
IC1003	C-18	Q1202	D-2
IC1004	E-18	Q1203	D-2
IC1005	G-17	Q1204	F-24
IC1101	D-20	Q1251	D-2
IC1102	C-20	Q1301	D-21
IC1103	B-20	Q1302	J-8
IC1104	H-18	Q1303	I-6
IC1105	G-18	Q1304	I-6
IC1155	I-18		

Note:
- o——: Indicated a lead wire mounted on the component side
- ■ : Parts mounted on the conductor side
- ⬚ : Indicates side identified with part number
- ● : Through hole
- ▨ : Pattern from the side which enables seeing

- G : Germany Model
- IT : Italian Model
- EE : East European Model


1
2
3
4
5
A
B
C
D
E
F
G
H
I
J
K
[POWER AMP BOARD]
(IT MODEL)
IC1201
Q1201
D1201
Q1251
D1251
Q1202
Q1203
(IT MODEL)
1-638-301-
CN1302
AC OUTLET
(UK MODEL)
(AEP/IT/G/EE MODEL)
CN1301
AC IN
19

ide



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A
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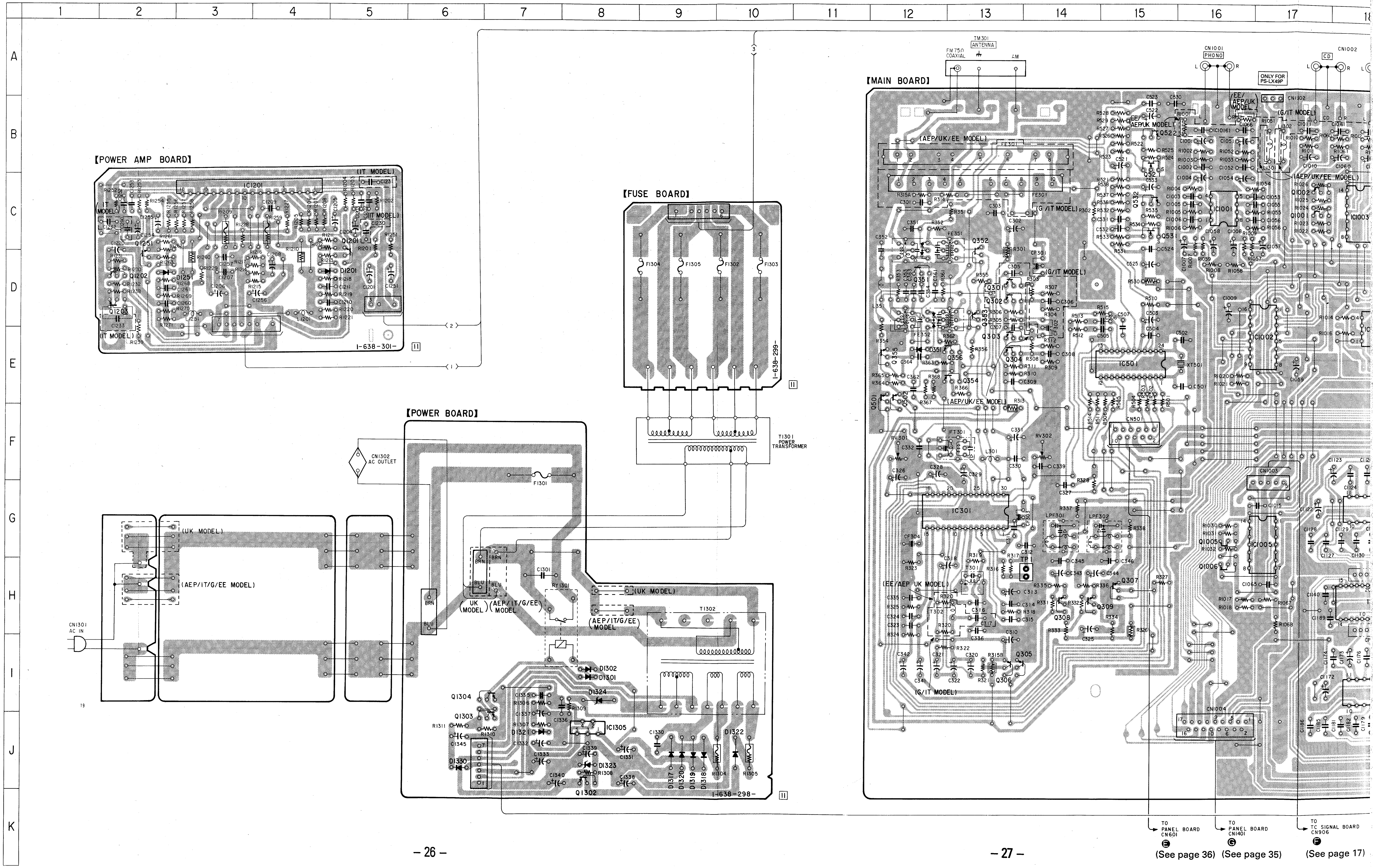
D
E
F
G
H
I
J
K
【POWER AMP BOARD】
IC1201
(IT MODEL)
1-638-301-
11
【FUSE BOARD】
F1304
F1305
F1302
F1303
1-638-299-
11
T1301
POWER
TRANSFORMER
【POWER BOARD】
CN1302
AC OUTLET
F1301
CN1301
AC IN
(UK MODEL)
(AEP/IT/G/EE MODEL)
UK
(MODEL)
(AEP/IT/G/EE)
MODEL
RY1301
T1302
IC1305
Q1302
Q1303
Q1304
D1301
D1302
1-638-298-
11
【MAIN BOARD】
TM301
ANTENNA
FM 75Ω
COAXIAL
AM
CN1001
PHONO
CN1002
CD
ONLY FOR
PS-LX49P
(AEP/UK/EE MODEL)
(G/IT MODEL)
IC301
IC501
IC1001
IC1002
IC1003
IC1005
CN501
CN1003
CN1004
TO
PANEL BOARD
CN601
E
(See page 36)
TO
PANEL BOARD
CN1401
G
(See page 35)
TO
TC SIGNAL BOARD
CN906
F
(See page 17)


【POWER AMP BOARD】
IC1201
(IT MODEL)
1-638-301-
【FUSE BOARD】
F1304
F1305
F1302
F1303
1-638-299-
T1301 POWER TRANSFORMER
【POWER BOARD】
CN1302 AC OUTLET
F1301
(UK MODEL)
(AEP/IT/G/EE MODEL)
CN1301 AC IN
RY1301
T1302
IC1305
Q1302
Q1303
Q1304
1-638-298-
【MAIN BOARD】
TM301 ANTENNA
FM 75Ω COAXIAL
AM
CN1001 PHONO
CD
CN1002
ONLY FOR PS-LX49P
(AEP/UK/EE MODEL)
(G/IT MODEL)
IC301
IC501
IC1001
IC1002
IC1003
IC1005
CN501
CN1003
CN1004
XT501
(EE/AEP/UK MODEL)
TO PANEL BOARD CN601 E

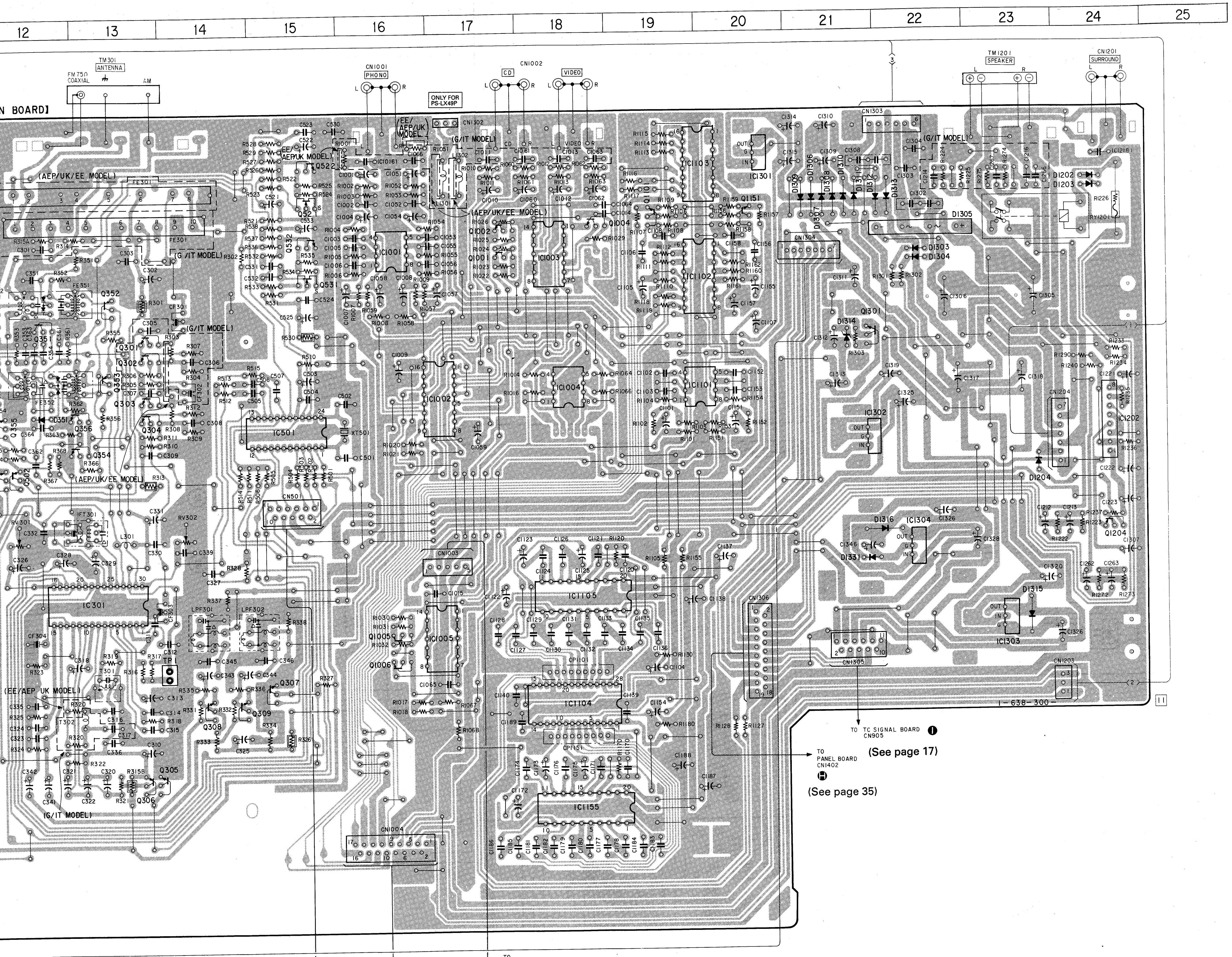
(See page 36)

TO PANEL BOARD CN1401 G

(See page 35)

TO TC SIGNAL BOARD CN906 F

(See page 17)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N BOARD]
TM301
ANTENNA
FM 75Ω
COAXIAL
AM
CN1001
PHONO
CN1002
CD
VIDEO
ONLY FOR
PS-LX49P
CN1302
TM1201
SPEAKER
CN1201
SURROUND
(AEP/UK/EE MODEL)
(G/IT MODEL)
(EE/AEP/UK MODEL)
(EE/AEP UK MODEL)
IC301
IC501
IC1001
IC1002
IC1003
IC1004
IC1005
IC1101
IC1102
IC1103
IC1104
IC1105
IC1155
IC1202
IC1301
IC1302
IC1303
IC1304
CN501
CN1003
CN1004
CN1203
CN1204
CN1303
CN1304
CN1305
CN1306
RY1201
TP1
1-638-300-

TO TC SIGNAL BOARD CN905 Ⓘ (See page 17)

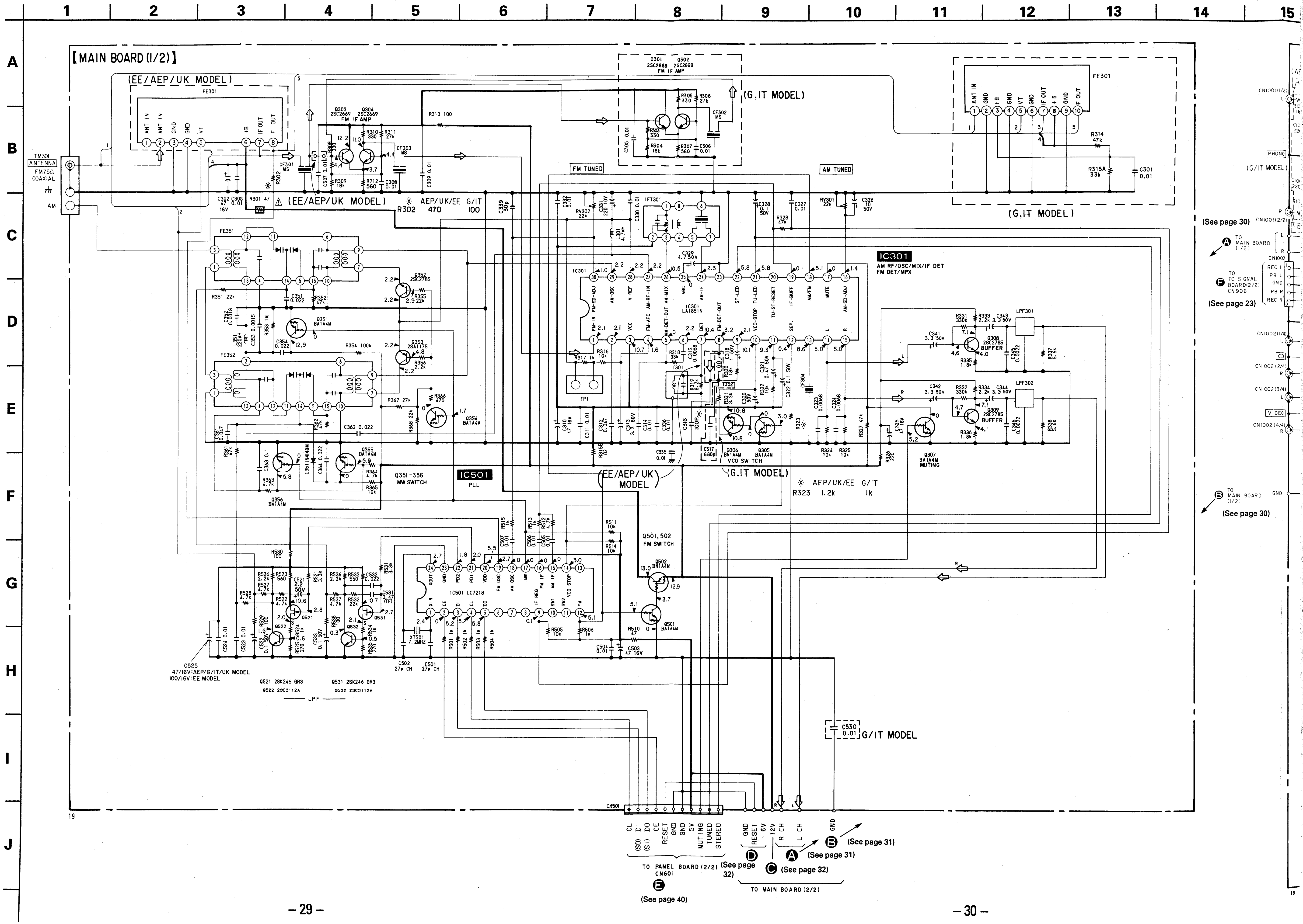
TO PANEL BOARD CN1402 Ⓗ (See page 35)

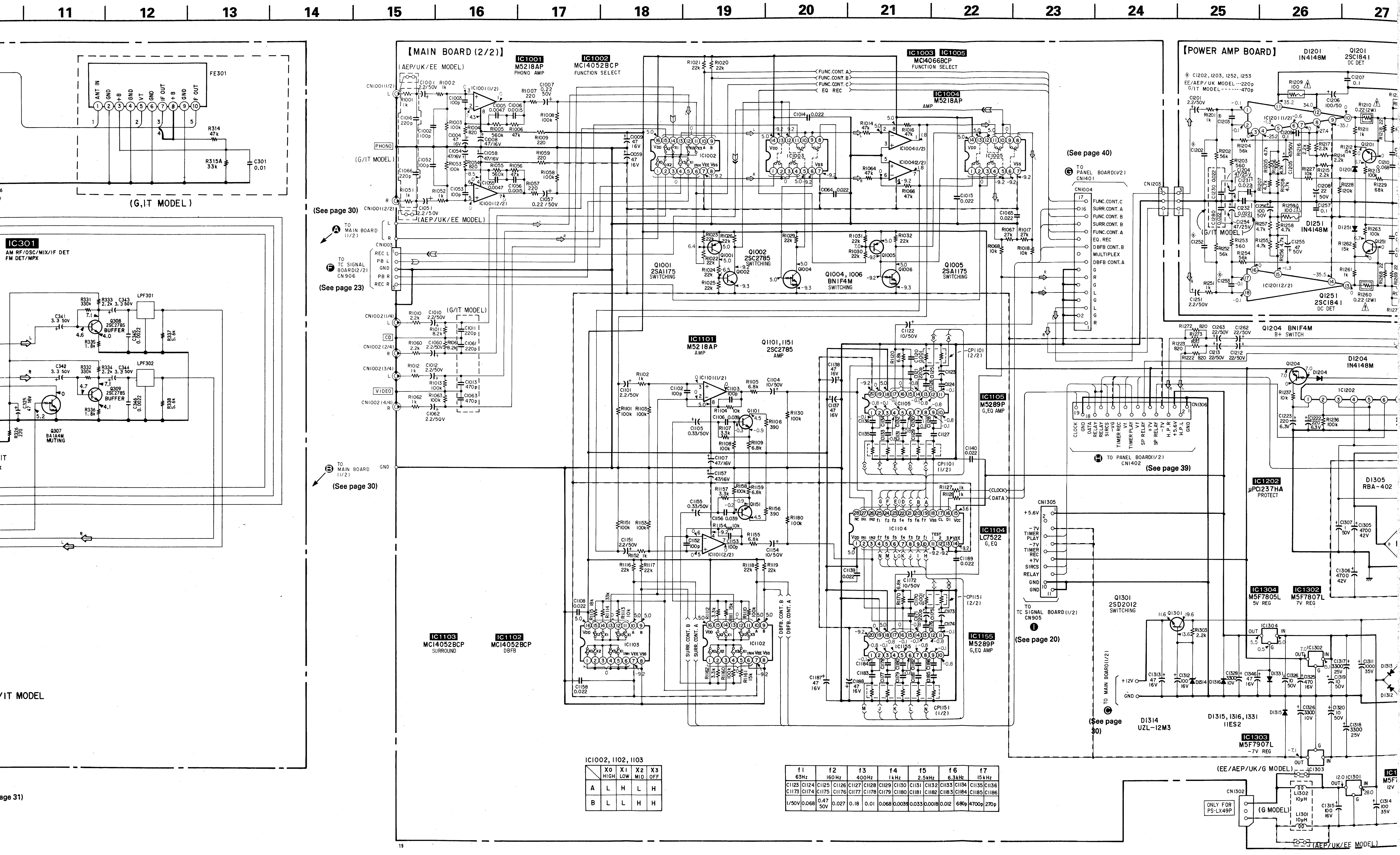
TO PANEL BOARD CN601 Ⓔ (See page 36)

TO PANEL BOARD CN1401 Ⓖ (See page 35)

TO TC SIGNAL BOARD CN906 Ⓕ (See page 17)

3-8. **SCHEMATIC DIAGRAM** - MAIN SECTION -


【MAIN BOARD (1/2)】
(EE/AEP/UK MODEL)
FE301
ANT IN
GND
VT
+B
IF OUT
F OUT
TM301
ANTENNA
FM75Ω
COAXIAL
AM
Q303 2SC2669
Q304 2SC2669
FM IF AMP
Q301 Q302 2SC2669 2SC2669 FM IF AMP
(G,IT MODEL)
R313 100
CF301 MS
CF302 MS
CF303 MS
FM TUNED
AM TUNED
IFT301
(G,IT MODEL)
R314 47k
R315A 33k
C301 0.01
※ AEP/UK/EE G/IT
R302 470 100
FE351
FE352
Q352 2SC2785
Q353 2SA1175
Q351 BA1A4M
Q354 BA1A4M
Q355 BA1A4M
Q356 BA1A4M
Q351-356 MW SWITCH
IC301
AM RF/OSC/MIX/IF DET
FM DET/MPX
IC301 LA1851N
TP1
T301
T302
Q306 BN1A4M
Q305 BA1A4M
VCO SWITCH
(EE/AEP/UK MODEL)
(G,IT MODEL)
※ AEP/UK/EE G/IT
R323 1.2k 1k
LPF301
LPF302
Q308 2SC2785 BUFFER
Q309 2SC2785 BUFFER
Q307 BA1A4M MUTING
IC501
PLL
IC501 LC7218
XT501 7.2MHZ
Q501,502 FM SWITCH
Q502 BN1A4M
Q501 BA1A4M
Q521 2SK246 GR3
Q522 2SC3112A
Q531 2SK246 GR3
Q532 2SC3112A
LPF
C525
47/16V:AEP/G/IT/UK MODEL
100/16V:EE MODEL
C530 0.01 G/IT MODEL
CN501
CL DI DO CE RESET GND GND 5V MUTING TUNED STEREO
(SO) (SI)
GND RESET 6V 12V R CH L CH GND
TO PANEL BOARD (2/2) CN601
Ⓔ (See page 40)
Ⓓ (See page 32)
Ⓒ (See page 32)
Ⓐ (See page 31)
Ⓑ (See page 31)
TO MAIN BOARD (2/2)
(See page 30)
Ⓐ TO MAIN BOARD (1/2)
Ⓕ TO TC SIGNAL BOARD (2/2) CN906
REC L PB L GND PB R REC R
(See page 23)
Ⓑ TO MAIN BOARD (1/2)
(See page 30)
CN1001(1/2)
CN1001(2/2)
CN1003
CN1002(1/4)
CN1002(2/4)
CN1002(3/4)
CN1002(4/4)
PHONO
(G/IT MODEL)
CD
VIDEO
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J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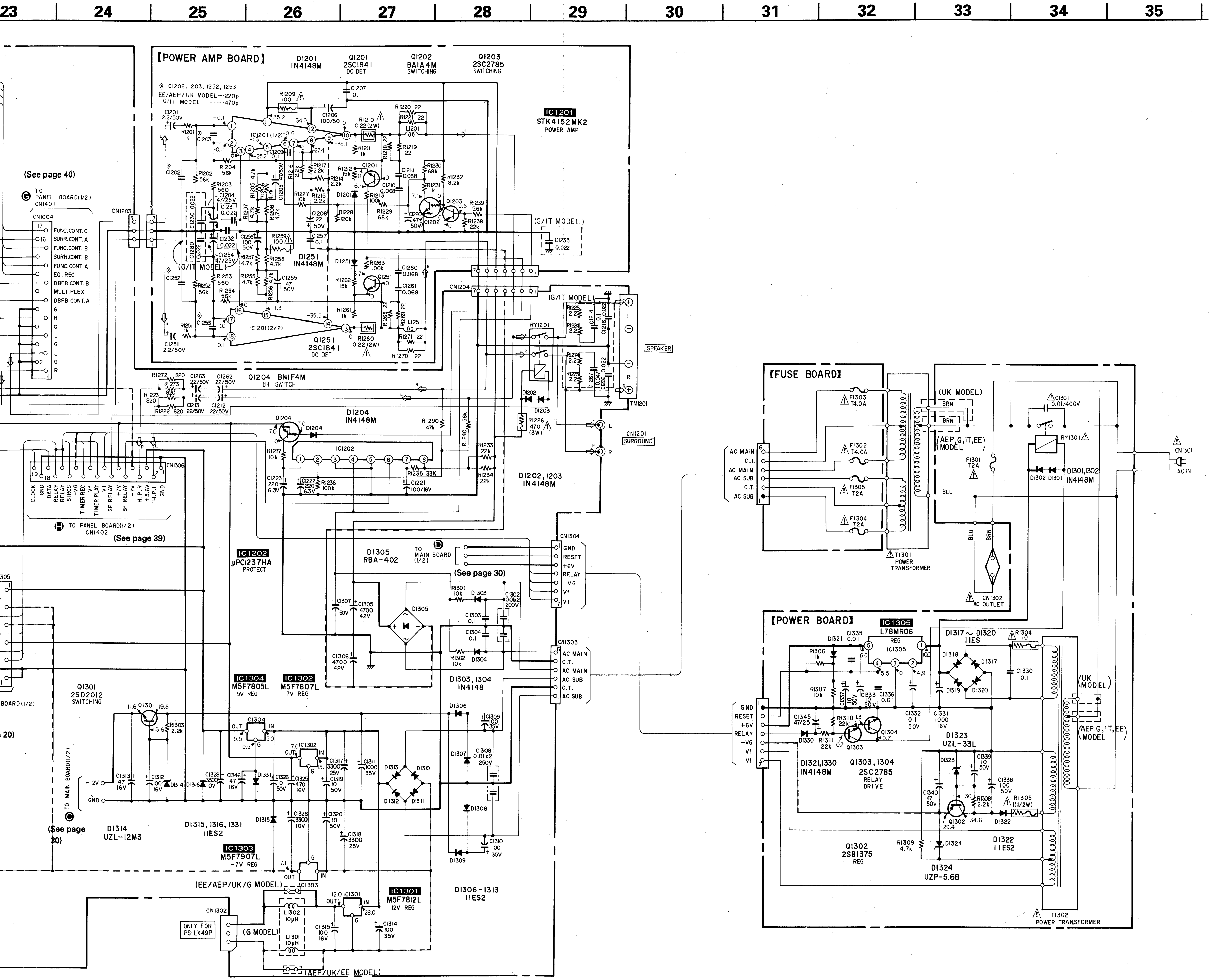
26
27
FE301
ANT IN
GND
+B
GND
VT
GND
IF OUT
+B
GND
IF OUT
R314 47k
R315A 33k
C301 0.01
(G,IT MODEL)
IC301
AM RF/OSC/MIX/IF DET FM DET/MPX
Q308 2SC2785 BUFFER
Q309 2SC2785 BUFFER
Q307 BA1A4M MUTING
LPF301
LPF302
/IT MODEL
(See page 30)
(See page 23)
(See page 30)
TO MAIN BOARD (1/2)
TO TC SIGNAL BOARD(2/2) CN906
[MAIN BOARD (2/2)]
(AEP/UK/EE MODEL)
(G/IT MODEL)
IC1001 M5218AP PHONO AMP
IC1002 MC14052BCP FUNCTION SELECT
IC1003 IC1005 MC14066BCP FUNCTION SELECT
IC1004 M5218AP AMP
Q1001 2SA1175 SWITCHING
Q1002 2SC2785 SWITCHING
Q1004, 1006 BN1F4M SWITCHING
Q1005 2SA1175 SWITCHING
PHONO
CD
VIDEO
FUNC.CONT.A
FUNC.CONT.B
FUNC.CONT.C
EQ REC
IC1101 M5218AP AMP
Q1101, 1151 2SC2785 AMP
IC1105 M5289P G,EQ AMP
IC1104 LC7522 G,EQ
IC1155 M5289P G,EQ AMP
IC1103 MC14052BCP SURROUND
IC1102 MC14052BCP DBFB
SURR.CONT.B
SURR.CONT.A
DBFB.CONT.B
DBFB.CONT.A
CLOCK
DATA
(See page 40)
TO PANEL BOARD(1/2) CN1401
CN1004
FUNC.CONT.C
SURR.CONT.A
FUNC.CONT.B
SURR.CONT.B
FUNC.CONT.A
EQ.REC
DBFB CONT.B
MULTIPLEX
DBFB CONT.A
TO PANEL BOARD(1/2) CN1402
(See page 39)
CN1305
TO TC SIGNAL BOARD(1/2) CN905
(See page 20)
TO MAIN BOARD(1/2)
(See page 30)
[POWER AMP BOARD]
D1201 1N4148M
Q1201 2SC1841 DC DET
※ C1202, 1203, 1252, 1253
EE/AEP/UK MODEL···220p
G/IT MODEL·········470p
IC1201 (1/2)
IC1201 (2/2)
D1251 1N4148M
Q1251 2SC1841 DC DET
Q1204 BN1F4M B+ SWITCH
D1204 1N4148M
IC1202 μPC1237HA PROTECT
D1305 RBA-402
IC1304 M5F7805L 5V REG
IC1302 M5F7807L 7V REG
Q1301 2SD2012 SWITCHING
D1314 UZL-12M3
D1315, 1316, 1331 11ES2
IC1303 M5F7907L -7V REG
(EE/AEP/UK/G MODEL)
ONLY FOR PS-LX49P
(G MODEL)
(AEP/UK/EE MODEL)

IC1002, 1102, 1103

	X0 HIGH	X1 LOW	X2 MID	X3 OFF
A	L	H	L	H
B	L	L	H	H

f1 63Hz		f2 160Hz		f3 400Hz		f4 1kHz		f5 2.5kHz		f6 6.3kHz		f7 15kHz	
C1123 C1173	C1124 C1174	C1125 C1175	C1126 C1176	C1127 C1177	C1128 C1178	C1129 C1179	C1130 C1180	C1131 C1181	C1132 C1182	C1133 C1183	C1134 C1184	C1135 C1185	C1136 C1186
1/50V	0.068	0.47 50V	0.027	0.18	0.01	0.068	0.0039	0.033	0.0018	0.012	680p	4700p	270p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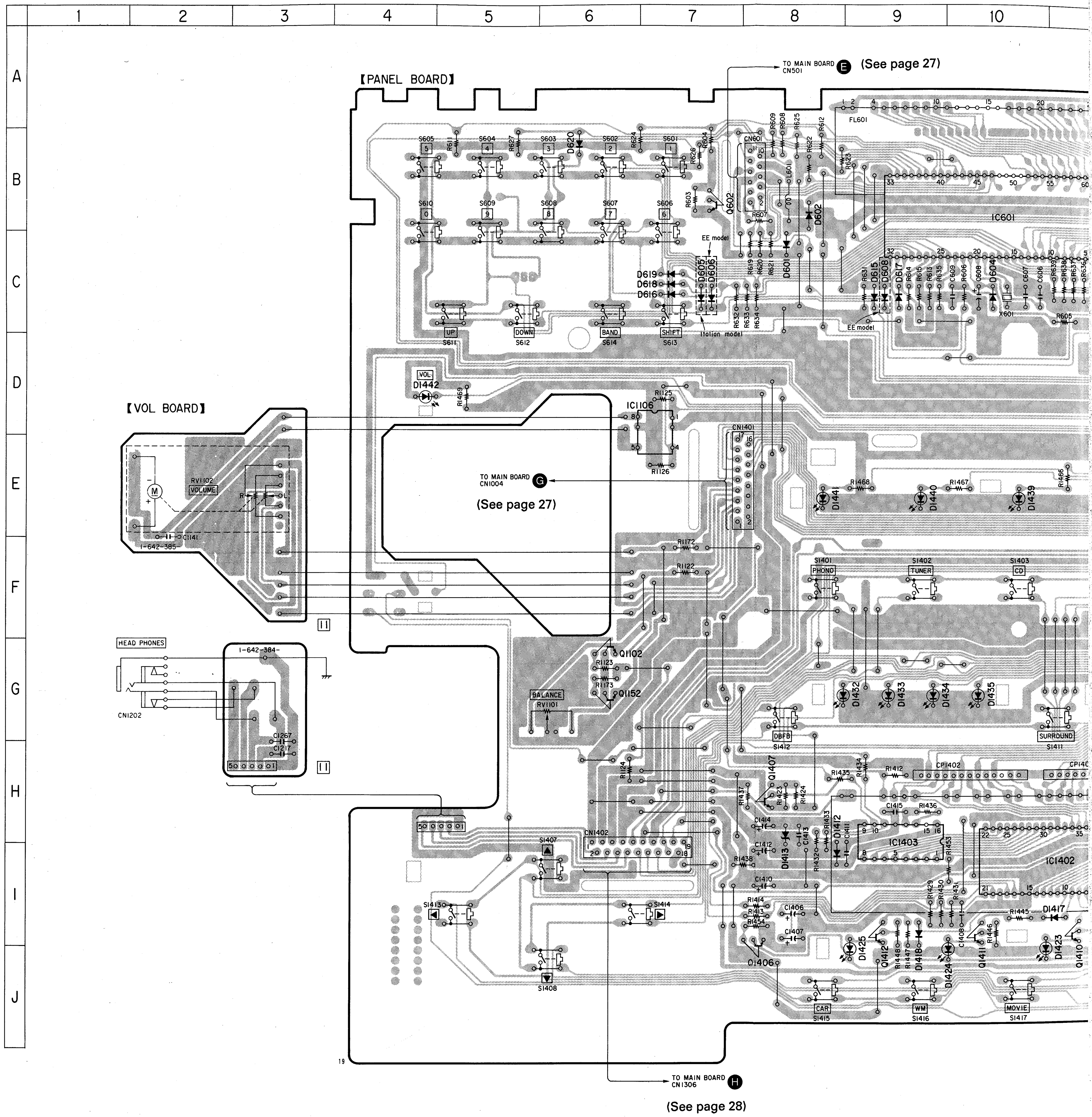
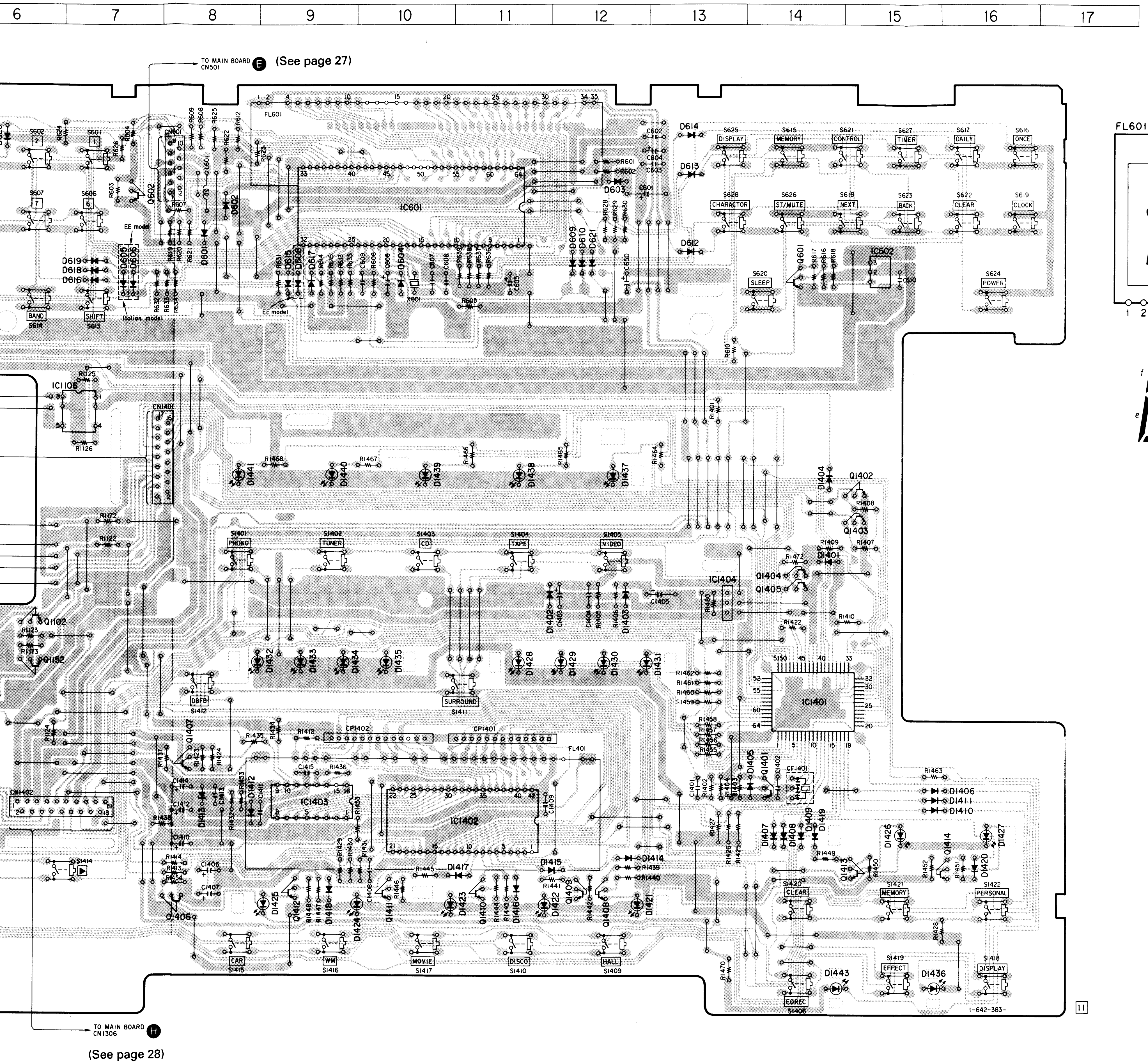
【POWER AMP BOARD】
D1201 IN4148M
Q1201 2SC1841 DC DET
Q1202 BA1A4M SWITCHING
Q1203 2SC2785 SWITCHING
※ C1202, 1203, 1252, 1253
EE/AEP/UK MODEL---220p
G/IT MODEL-------470p
IC1201 STK4152MK2 POWER AMP
(See page 40)
TO PANEL BOARD(1/2) CN1401
CN1004
CN1203
FUNC.CONT.C
SURR.CONT.A
FUNC.CONT.B
SURR.CONT.B
FUNC.CONT.A
EQ.REC
DBFB CONT.B
MULTIPLEX
DBFB CONT.A
(G/IT MODEL)
(G/IT MODEL)
D1251 IN4148M
Q1251 2SC1841 DC DET
IC1201(1/2)
IC1201(2/2)
CN1204
(G/IT MODEL)
RY1201
SPEAKER
TM1201
Q1204 BN1F4M B+ SWITCH
D1204 IN4148M
IC1202
CN1201 SURROUND
D1202, 1203 IN4148M
CN1306
CLOCK
GND
DATA
RELAY
SIRCS
-VG
TIMER REC
TIMER PLAY
V1
SP RELAY
+7V
SP RELAY
-7V
H.P.R
+5.6V
H.P.L
GND
TO PANEL BOARD(1/2) CN1402
(See page 39)
IC1202 μPC1237HA PROTECT
D1305 RBA-402
TO MAIN BOARD (1/2)
(See page 30)
CN1304
GND
RESET
+6V
RELAY
-VG
Vf
Vf
CN1303
AC MAIN
C.T.
AC MAIN
AC SUB
C.T.
AC SUB
IC1304 M5F7805L 5V REG
IC1302 M5F7807L 7V REG
D1303, 1304 IN4148
Q1301 2SD2012 SWITCHING
BOARD(1/2)
TO MAIN BOARD(1/2)
(See page 30)
D1314 UZL-12M3
D1315, 1316, 1331 11ES2
IC1303 M5F7907L -7V REG
(EE/AEP/UK/G MODEL)
IC1301 M5F7812L 12V REG
D1306-1313 11ES2
CN1302
ONLY FOR PS-LX49P
(G MODEL)
(AEP/UK/EE MODEL)
【FUSE BOARD】
F1303 T4.0A
F1302 T4.0A
F1305 T2A
F1304 T2A
T1301 POWER TRANSFORMER
(UK MODEL)
BRN
BRN
(AEP,G,IT,EE MODEL)
F1301 T2A
BLU
BLU
BRN
C1301 0.01/400V
RY1301
D1301,1302 IN4148M
CN1301 AC IN
CN1302 AC OUTLET
【POWER BOARD】
IC1305 L78MR06
D1317～D1320 11ES
R1304 10
C1330 0.1
(UK MODEL)
(AEP,G,IT,EE MODEL)
GND
RESET
+6V
RELAY
-VG
Vf
Vf
D1321,1330 IN4148M
Q1303, 1304 2SC2785 RELAY DRIVE
D1323 UZL-33L
Q1302 2SB1375 REG
D1322 11ES2
D1324 UZP-5.6B
T1302 POWER TRANSFORMER

3-9. PRINTED WIRING BOARDS – PANEL SECTION –

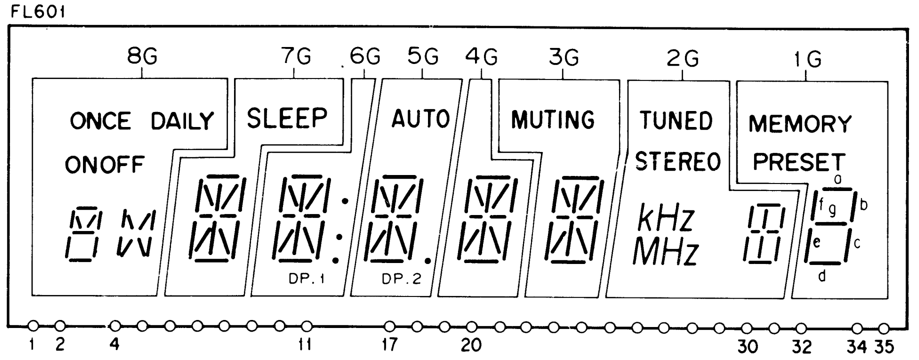
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D601	C-8	D1426	I-15
D602	B-8	D1427	I-16
D603	B-12	D1428	G-11
D604	C-10	D1429	G-12
D605	C-7 (IT)	D1430	G-12
D606	C-7 (EE)	D1431	G-12
D608	C-9 (EE)	D1432	G-8
D609	C-12	D1433	G-9
D610	C-12	D1434	G-9
D612	C-13	D1435	G-10
D613	B-13	D1436	J-15
D614	B-13	D1437	E-12
D615	C-9	D1438	E-11
D616	C-7	D1439	E-10
D617	C-9	D1440	E-9
D618	C-7	D1441	E-8
D619	C-7	D1442	D-4
D620	B-6	D1443	J-14
D621	C-12		
D1401	F-14	IC601	B-10
		IC602	C-15
D1402	F-11	IC1106	D-7
D1403	F-12	IC1401	G-14
D1404	E-14	IC1402	I-11
D1405	H-14		
D1406	H-16	IC1403	H-9
		IC1404	F-13
D1407	I-14		
D1408	I-14	Q601	C-14
D1409	I-14	Q602	B-7
D1410	I-16	Q1102	G-6
D1411	H-16	Q1152	G-6
		Q1401	H-14
D1412	I-8		
D1413	H-8	Q1402	E-15
D1414	I-12	Q1403	F-15
D1415	I-11	Q1404	F-14
D1416	I-11	Q1405	F-14
		Q1406	I-8
D1417	I-11		
D1418	I-9	Q1407	H-8
D1419	I-14	Q1408	I-12
D1420	I-16	Q1409	I-12
D1421	I-12	Q1410	I-11
		Q1411	I-10
D1422	I-11		
D1423	I-10	Q1412	I-9
D1424	I-10	Q1413	I-15
D1425	I-9	Q1414	I-16

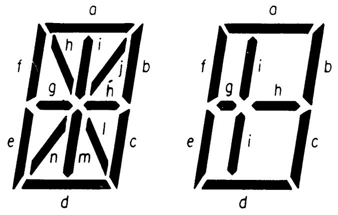

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
【PANEL BOARD】
TO MAIN BOARD CN501 E
(See page 27)
FL601
IC601
CN601
S601
S602
S603
S604
S605
S606
S607
S608
S609
S610
UP
S611
DOWN
S612
BAND
S614
SHIFT
S613
Italian model
EE model
X601
Q602
D602
D601
D620
D619
D618
D616
D605
D606
D615
D608
D617
D604
【VOL BOARD】
RV1102
VOLUME
C1141
1-642-385-
VOL
D1442
IC1106
R1125
R1126
CN1401
TO MAIN BOARD CN1004 G
(See page 27)
D1441
D1440
D1439
R1468
R1467
R1172
R1122
S1401
PHONO
S1402
TUNER
S1403
CD
HEAD PHONES
CN1202
1-642-384-
C1267
C1217
Q1102
Q1152
R1123
R1173
BALANCE
RV1101
D1432
D1433
D1434
D1435
DBFB
S1412
SURROUND
S1411
Q1407
CP1402
IC1403
IC1402
CN1402
S1407
S1413
S1414
S1408
Q1406
D1413
D1412
D1425
D1418
D1424
Q1411
Q1410
D1423
D1417
CAR
S1415
WM
S1416
MOVIE
S1417
TO MAIN BOARD CN1306 H
(See page 28)



6
7
8
9
10
11
12
13
14
15
16
17
TO MAIN BOARD CN501
E
(See page 27)
FL601
IC601
IC602
IC1106
IC1401
IC1402
IC1403
IC1404
CN1401
CN1402
CN601
CP1401
CP1402
FL401
X601
CF1401
S601
S602
S606
S607
S613 SHIFT
S614 BAND
S615 MEMORY
S616 ONCE
S617 DAILY
S618 NEXT
S619 CLOCK
S620 SLEEP
S621 CONTROL
S622 CLEAR
S623 BACK
S624 POWER
S625 DISPLAY
S626 ST/MUTE
S627 TIMER
S628 CHARACTOR
S1401 PHONO
S1402 TUNER
S1403 CD
S1404 TAPE
S1405 VIDEO
S1406 EQREC
S1409 HALL
S1410 DISCO
S1411 SURROUND
S1412 DBFB
S1414
S1415 CAR
S1416 WM
S1417 MOVIE
S1418 DISPLAY
S1419 EFFECT
S1420 CLEAR
S1421 MEMORY
S1422 PERSONAL
EE model
Italian model
Q602
Q601
Q1102
Q1152
Q1401
Q1402
Q1403
Q1404
Q1405
Q1406
Q1407
Q1408
Q1409
Q1410
Q1411
Q1412
Q1413
Q1414
D1443
D1436
1-642-383-
11
TO MAIN BOARD CN1306
H
(See page 28)



FL601
8G
7G
6G
5G
4G
3G
2G
1G
ONCE
DAILY
ONOFF
SLEEP
AUTO
MUTING
TUNED
STEREO
MEMORY
PRESET
kHz
MHz
DP.1
DP.2
1
2
4
11
17
20
30
32
34
35



a
b
c
d
e
f
g
h
i
j
k
l
m
n

Note:
- •○——: Indicated a lead wire mounted on the component side
- ■ : Parts mounted on the conductor side
- ⌐¦ : Indicates side identified with part number
- ● : Through hole
- ▨ : Pattern from the side which enables seeing

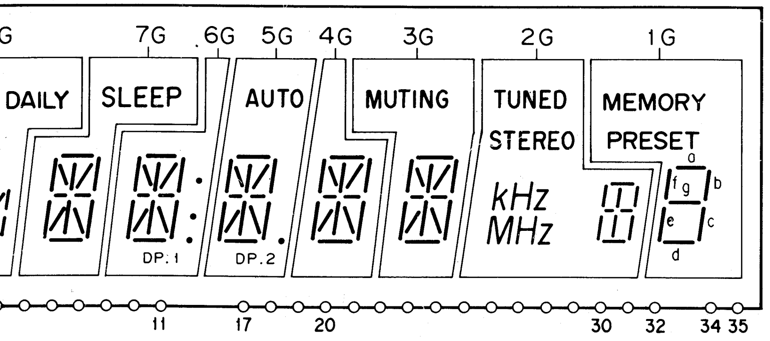
- G : Germany Model
- IT : Italian Model
- EE : East European Model

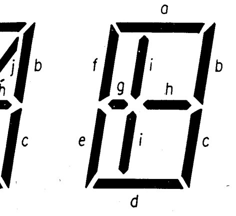
Note:
- All capacitors
  or less are n
- All resistors
- ▭ : Nonfla
- ▭ : Fuse r

The components
dotted line with
safety.
Replace only wit

- ━━ : B + Li
- ╍╍ : B − Li
- ▭ : Adjust
- Voltage are
  conditions.
- No mark :
  ( ) :
  < > :
- Voltages are
  Voltage vari
  tolerances.
- Signal path
  ⇨ : FM
  ⇨ : REC (D
  ⇨ : PB (D
  ⇨ : PB (D

- G : Germa
- IT : Italian
- EE : East E





ote:

- ○—— : Indicated a lead wire mounted on the component side
- ■ : Parts mounted on the conductor side
- ⬚ : Indicates side identified with part number
- ● : Through hole
- ▨ : Pattern from the side which enables seeing

G : Germany Model
IT : Italian Model
EE : East European Model

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W or less unless otherwise noted.
- ▭ : Nonflammable resistor
- ▭ : Fuse resistor

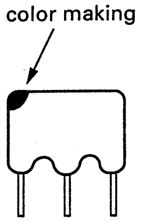
> The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
> Replace only with part number specified.

- ━━━ : B+ Line
- ■ ■ ■ : B− Line
- ▭ : Adjustment for repair
- Voltage are dc with respect to ground under no-signal (STOP) conditions.
- No mark : Stop, FM
  ( ) : PB
  < > : REC
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path
  ⇨ : FM
  ⇛ : REC (DECK B)
  ⊳ : PB (DECK A)
  ⊳⊳ : PB (DECK B)

- G : Germany Model
- IT : Italian Model
- EE : East European Model

Note on Ceramic Filter Replacement.

This set employs two or three ceramic filters (CF301 – CF303) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by jumpers (*A, *B) is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



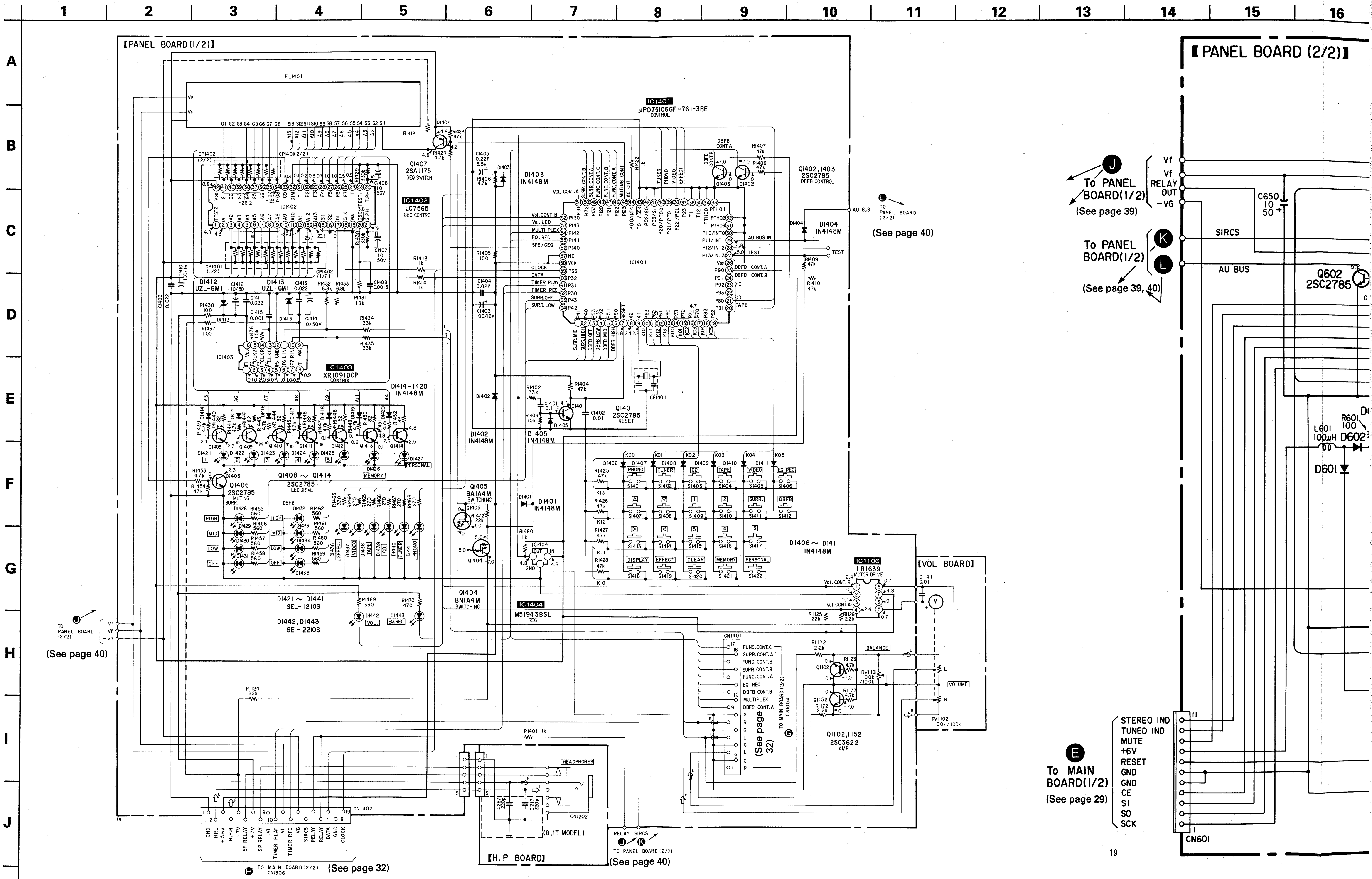
AEP, UK, EE model : CF301, 303
G, IT model : CF301 – CF303

○ : Connected
× : not Connected

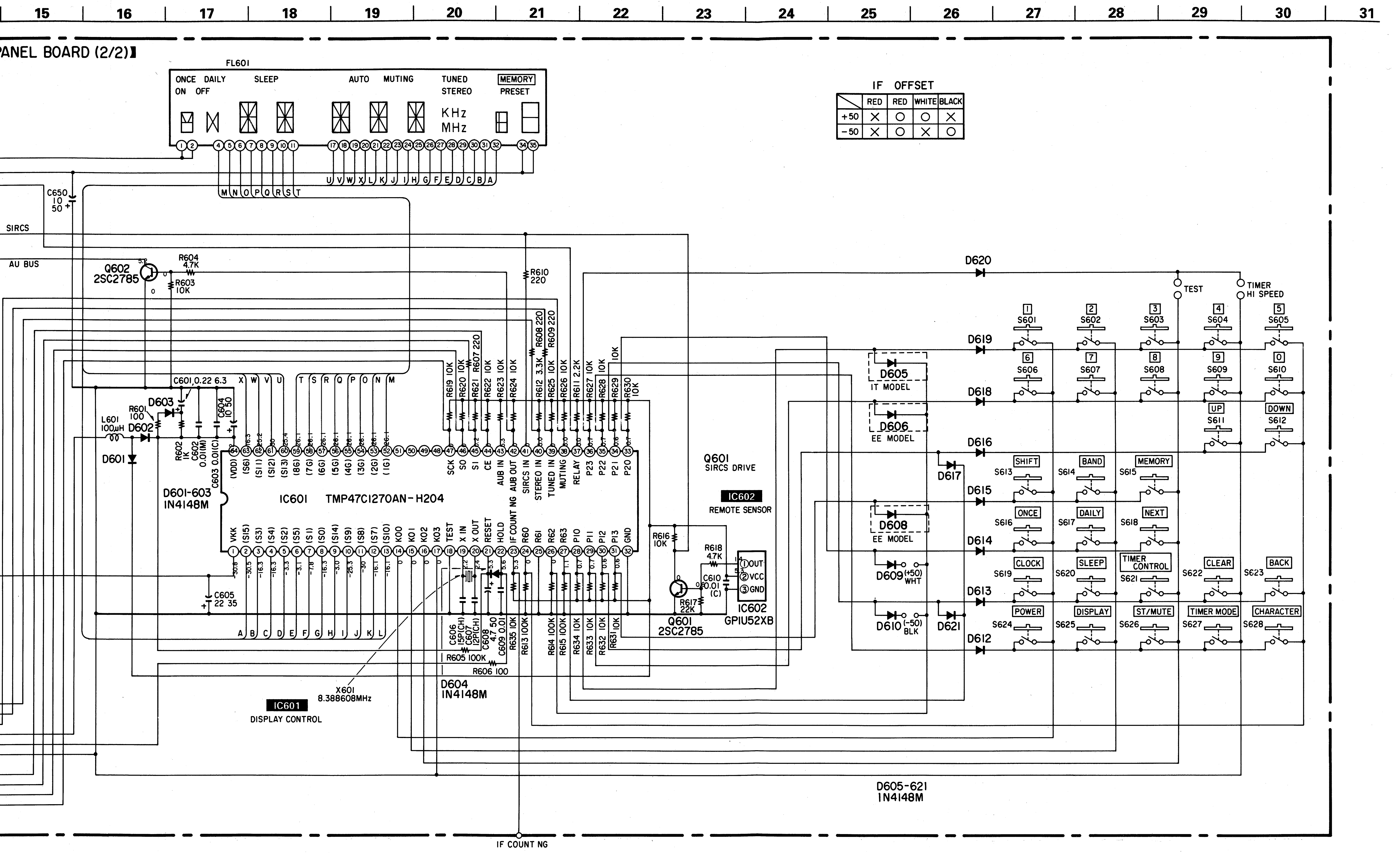
Ceramic filter		Mount		FM intermediate (MHz)
Color mark	Center frequency (MHz)	IF-50K *B	IF+50K *A	
white	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.350

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i. e. of same color coding, should be used for CF301 – CF303.
When replacing the ceramic filters, perform the FM Di-scriminator Adjustment.

3-10. SCHEMATIC DIAGRAM – PANEL SECTION –


[PANEL BOARD (1/2)]
[PANEL BOARD (2/2)]
FL1401
IC1401 μPD75106GF-761-3BE CONTROL
IC1402 LC7565 GEQ CONTROL
IC1403 XR1091DCP CONTROL
IC1404 M51943BSL REG
IC1106 LB1639 MOTOR DRIVE
Q1407 2SA1175 GEQ SWITCH
Q1402,1403 2SC2785 DBFB CONTROL
Q1401 2SC2785 RESET
Q1406 2SC2785 MUTING
Q1408 ~ Q1414 2SC2785 LED DRIVE
Q1405 BA1A4M SWITCHING
Q1404 BN1A4M SWITCHING
Q1102,1152 2SC3622 AMP
Q602 2SC2785
D1403 1N4148M
D1404 1N4148M
D1402 1N4148M
D1405 1N4148M
D1401 1N4148M
D1412 UZL-6M1
D1413 UZL-6M1
D1414-1420 1N4148M
D1406 ~ D1411 1N4148M
D1421 ~ D1441 SEL-1210S
D1442,D1443 SE-2210S
CF1401
HIGH
MID
LOW
OFF
EFFECT
VIDEO
TAPE
CD
TUNER
PHONO
MEMORY
PERSONAL
VOL.
EQ.REC
SURR.
DBFB
DISPLAY
CLEAR
[VOL BOARD]
BALANCE
VOLUME
RV1101 100k/100k
RV1102 100k/100k
CN1401
TO MAIN BOARD(2/2) CN1004
(See page 32)
CN1402
GND H.P.L +5.6V H.P.R -7V SP RELAY +7V SP RELAY Vf TIMER PLAY Vf TIMER REC -VG SIRCS RELAY DATA GND CLOCK
TO MAIN BOARD(2/2) CN1306
(See page 32)
TO PANEL BOARD (2/2)
(See page 40)
[H.P BOARD]
HEADPHONES
CN1202
(G,IT MODEL)
RELAY SIRCS
TO PANEL BOARD (2/2)
(See page 40)
TO PANEL BOARD (2/2)
AU BUS
TEST
To PANEL BOARD(1/2)
(See page 39)
Vf
Vf
RELAY
OUT
-VG
SIRCS
AU BUS
To PANEL BOARD(1/2)
(See page 39, 40)
C650 10 50
L601 100μH
R601 100
D602
D601
To MAIN BOARD(1/2)
(See page 29)
STEREO IND
TUNED IND
MUTE
+6V
RESET
GND
GND
CE
SI
SO
SCK
CN601

ANEL BOARD (2/2)


15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
FL601
ONCE ON
DAILY OFF
SLEEP
AUTO
MUTING
TUNED STEREO
MEMORY
PRESET
KHz
MHz
C650 10 50
SIRCS
AU BUS
Q602 2SC2785
R604 4.7K
R603 10K
R610 220
D620
TEST
TIMER HI SPEED
S601
S602
S603
S604
S605
S606
S607
S608
S609
S610
D619
D605
IT MODEL
D618
D606
EE MODEL
UP
S611
DOWN
S612
D616
D617
SHIFT
BAND
MEMORY
S613
S614
S615
D615
ONCE
DAILY
NEXT
S616
S617
S618
D608
EE MODEL
D614
CLOCK
SLEEP
TIMER CONTROL
CLEAR
BACK
S619
S620
S621
S622
S623
D609 (+50) WHT
D613
POWER
DISPLAY
ST/MUTE
TIMER MODE
CHARACTER
S624
S625
S626
S627
S628
D610 (-50) BLK
D621
D612
D605-621 1N4148M
Q601 SIRCS DRIVE
IC602 REMOTE SENSOR
R616 10K
R618 4.7K
C610 0.01 (C)
R617 22K
Q601 2SC2785
IC602 GP1U52XB
①OUT
②VCC
③GND
IC601 TMP47C1270AN-H204
D601-603 1N4148M
C601 0.22 6.3
R601 100
D603
D602
L601 100μH
D601
R602 1K
C602 0.01(M)
C603 0.01(C)
C604 10 50
C605 22 35
R619 10K
R620 10K
R621 10K
R607 220
R622 10K
R623 10K
R624 10K
R608 220
R609 220
R612 3.3K
R625 10K
R626 10K
R611 2.2K
R627 10K
R628 10K
R629 10K
R630 10K
C606 15P(CH)
C607 12P(CH)
C608 4.7 50
C609 0.01
R635 10K
R613 100K
R614 100K
R615 100K
R634 10K
R633 10K
R632 10K
R631 10K
R605 100K
R606 100
D604 1N4148M
X601 8.388608MHz
IC601 DISPLAY CONTROL
IF COUNT NG

IF OFFSET	RED	RED	WHITE	BLACK
+50	×	○	○	×
−50	×	○	×	○

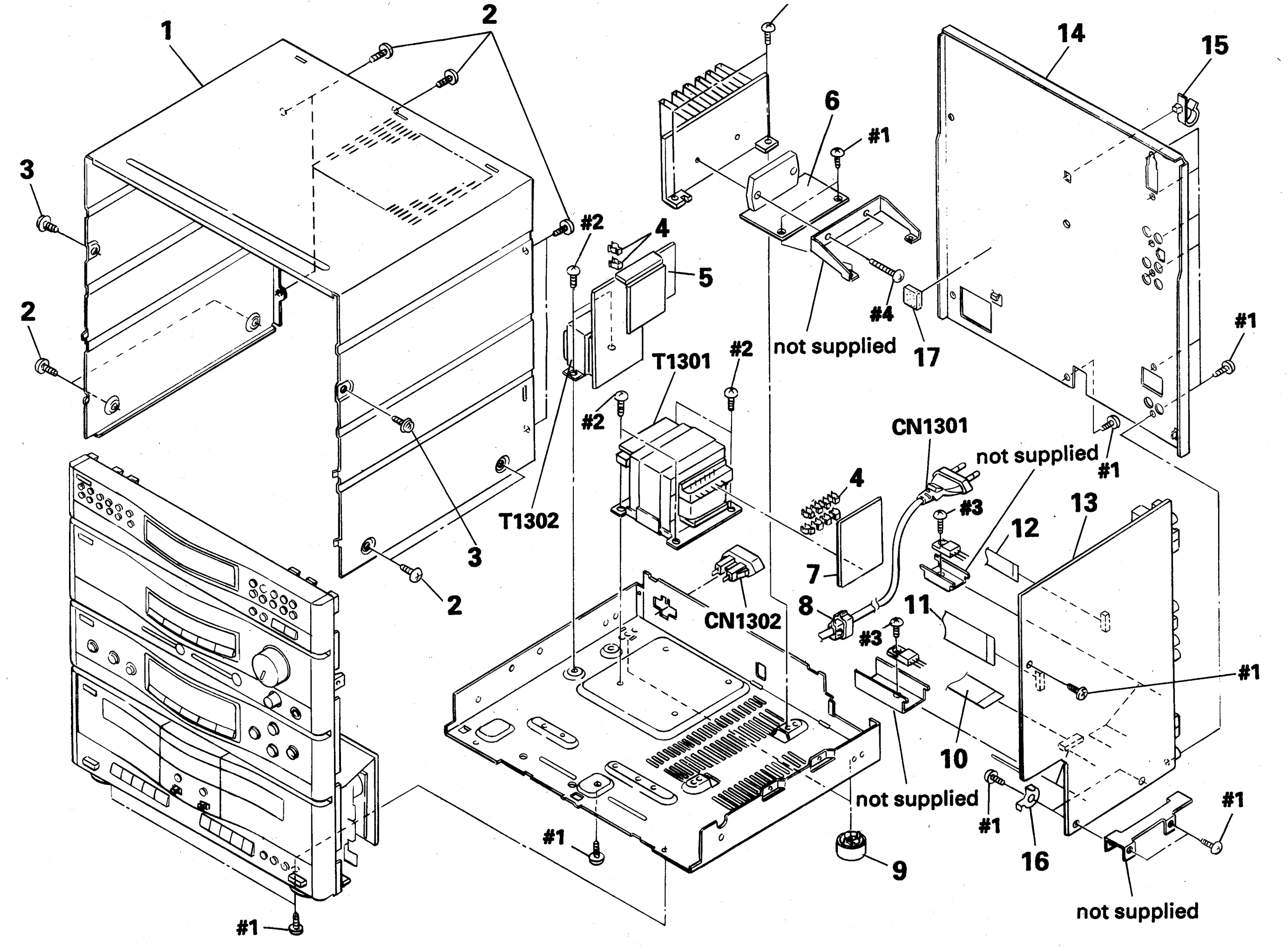
SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:
  KNOB,BALANCE(WHITE)...(RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware(# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

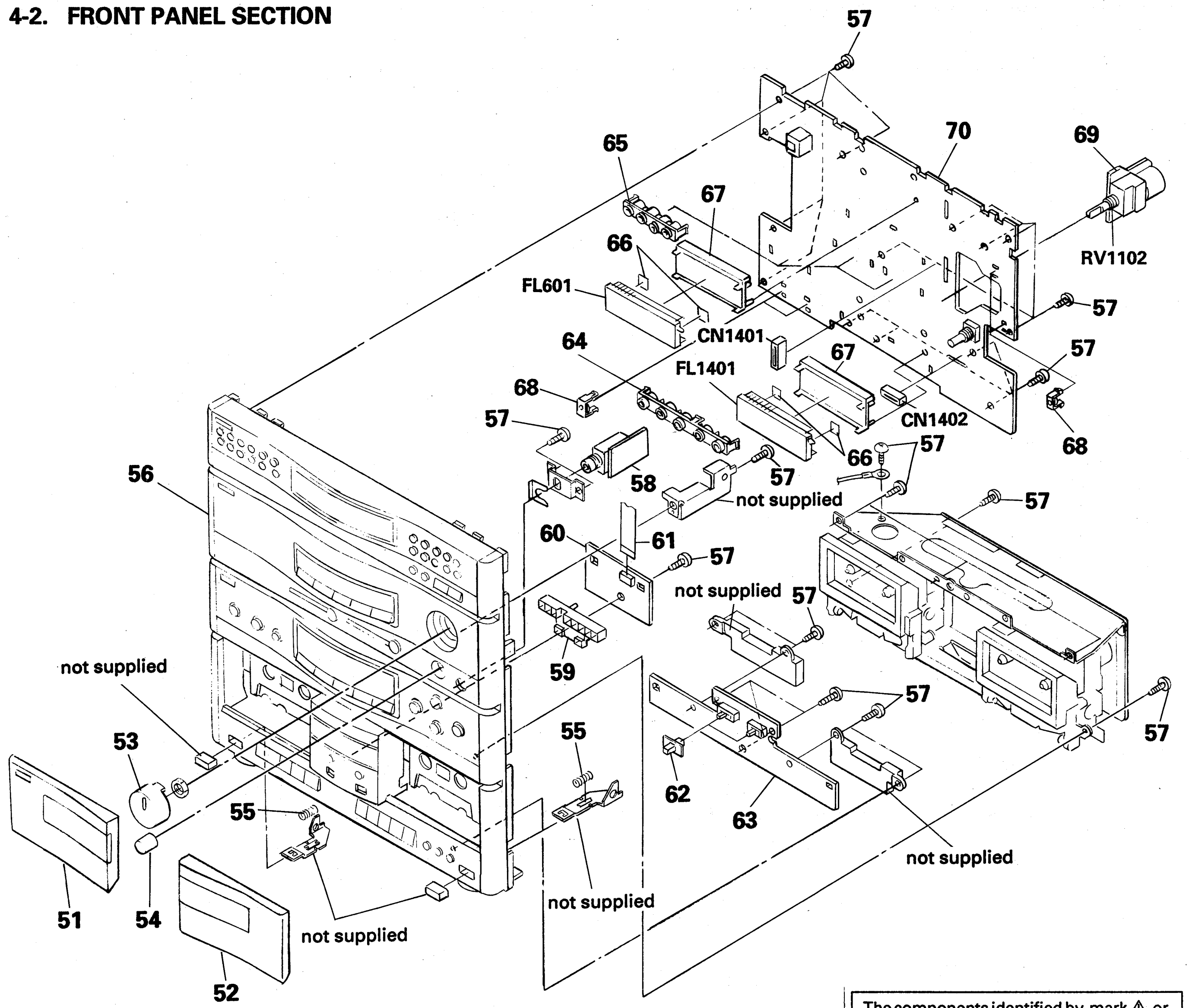
- G : Germany Model
- IT : Italian Model
- EE : East European Model

4-1. CABINET SECTION


1
2
3
2
#2
4
5
T1301
#2
T1302
#2
#1
6
#1
#4
not supplied
17
14
15
#1
CN1301
not supplied
#1
4
#3
12
13
7
8
CN1302
#3
11
#1
10
not supplied
#1
16
#1
9
#1
3
2
#1
not supplied

Ref. No.	Part No.	Description	Remarks
* 1	4-943-170-11	CASE (AEP, UK, G, EE)	
* 1	4-943-170-52	CASE (IT)	
2	4-929-973-01	SCREW (CASE, 3 POINT)	
3	3-363-099-01	SCREW (CASE +3X8 TP2)	
4	1-533-217-31	HOLDER, FUSE	
* 5	1-638-298-11	POWER BOARD	
* 6	A-4347-231-A	POWER AMP BOARD, COMPLETE (AEP, UK, EE)	
* 6	A-4347-370-A	POWER AMP BOARD, COMPLETE (G, IT)	
* 7	1-638-299-11	FUSE BOARD	
* 8	3-703-244-00	BUSHING (2104), CORD	
9	X-4941-228-1	FOOT ASSY	
* 10	1-690-948-11	WIRE (FLAT TYPE) (19 CORE)	
11	1-590-577-11	WIRE, FLAT TYPE (17 CORE)	
12	1-590-576-11	WIRE, FLAT TYPE (11 CORE)	
* 13	A-4347-228-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 13	A-4347-367-A	MAIN BOARD, COMPLETE (G, IT)	
* 13	A-4347-612-A	MAIN BOARD, COMPLETE (EE)	
* 14	4-948-288-01	PANEL, BACK (UK)	
* 14	4-948-288-11	PANEL, BACK (AEP)	
* 14	4-948-288-21	PANEL, BACK (AEP)	
* 14	4-948-288-31	PANEL, BACK (G)	
* 14	4-948-288-41	PANEL, BACK (IT)	
* 14	4-948-288-51	PANEL, BACK (EE)	
* 15	4-949-235-01	HOOK	
* 16	4-942-204-01	PLATE, GROUND	
* 17	3-339-466-01	SPACER (HA)	
⚠CN1301	1-575-651-61	CORD, POWER (AEP, G, IT, EE1)	
⚠CN1301	1-575-652-21	CORD, POWER (UK)	
⚠CN1302	1-526-751-00	OUTLET, AC (UK)	
⚠CN1302	1-526-794-11	OUTLET, AC (AEP, G, IT, EE)	
⚠T1301	1-450-787-11	TRANSFORMER, POWER	
⚠T1302	1-450-397-21	TRANSFORMER, POWER	

4-2. FRONT PANEL SECTION

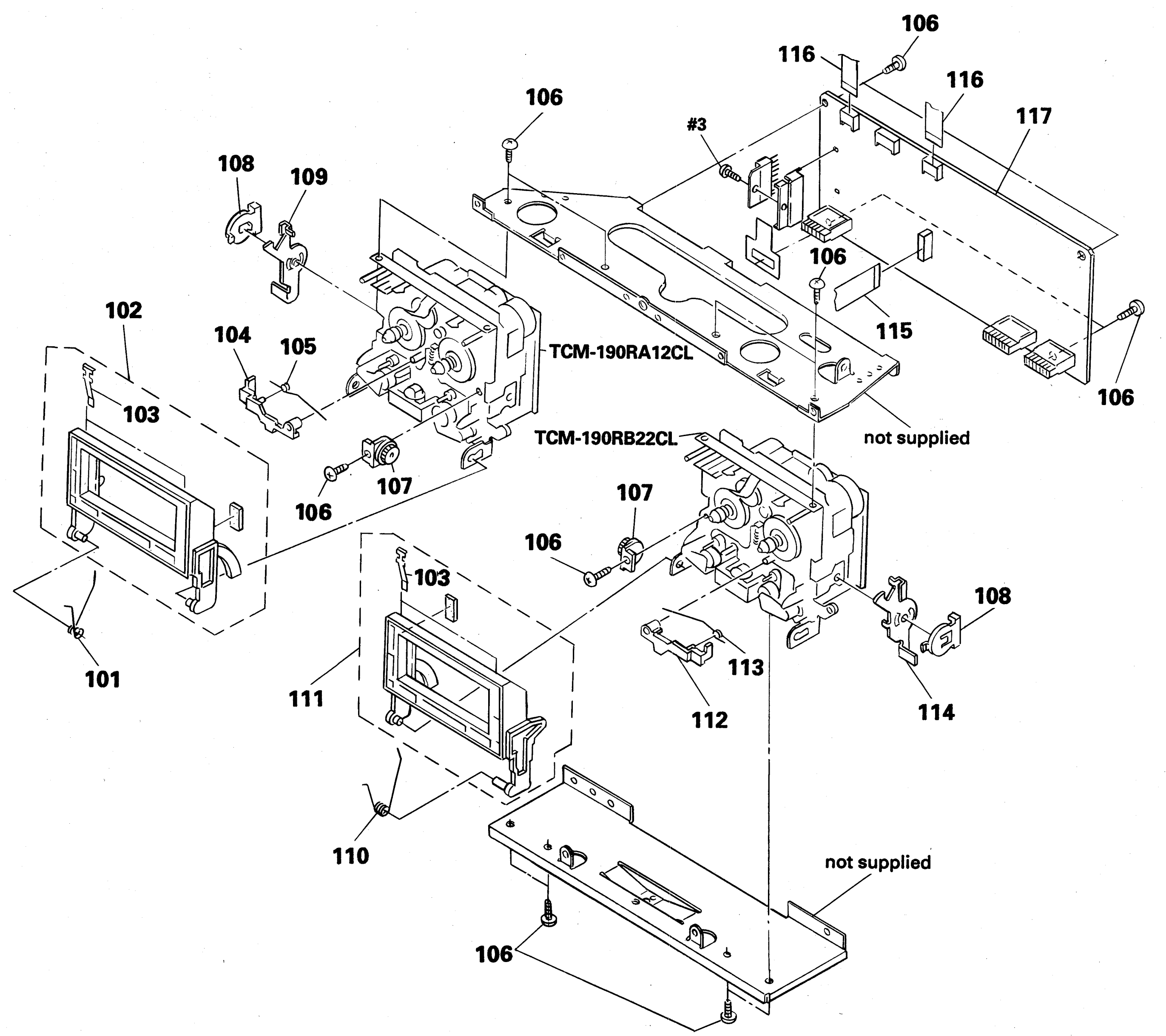

57
65
70
69
67
66
RV1102
FL601
57
CN1401
64
FL1401
67
57
68
57
CN1402
68
66
57
56
58
57
not supplied
57
60
61
57
not supplied
57
59
not supplied
57
53
55
57
57
62
63
55
not supplied
not supplied
51
54
not supplied
not supplied
52

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks
51	A-4325-456-A	LID (A) ASSY, CASSETTE (AEP, UK, G, EE)	
51	A-4325-521-A	LID (A) ASSY, CASSETTE (IT)	
52	A-4325-457-A	LID (B) ASSY, CASSETTE (AEP, UK, G, EE)	
52	A-4325-522-A	LID (B) ASSY, CASSETTE (IT)	
53	A-4323-382-A	KNOB (VO) ASSY	
54	4-948-270-01	KNOB (DSB)	
55	3-500-131-00	SPRING, COMPRESSION	
56	A-4325-458-A	PANEL ASSY, FRONT (AEP, UK, G, EE)	
56	A-4325-523-A	PANEL ASSY, FRONT (IT)	
57	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
* 58	1-642-384-11	H.P. BOARD	
* 59	4-948-246-01	HOLDER (TC), LED	
* 60	1-642-153-11	DISPLAY BOARD	
61	1-590-575-11	WIRE, FLAT TYPE (11 CORE)	
62	4-948-273-01	KNOB, SLIDE	
* 63	1-642-152-11	TC SW BOARD	
* 64	4-948-247-01	HOLDER (FU), LED	
* 65	4-948-248-01	HOLDER (DS), LED	
* 66	4-949-935-01	CUSHION (FL)	
* 67	4-942-301-01	HOLDER, FL TUBE	
* 68	4-930-781-11	HOLDER(VO), LED	
* 69	1-162-385-11	VOL. BOARD	
* 70	A-4347-232-A	PANEL BOARD, COMPLETE (AEP, UK, G)	
* 70	A-4347-371-A	PANEL BOARD, COMPLETE (IT)	
* 70	A-4347-614-A	PANEL BOARD, COMPLETE (EE)	
* CN1401	1-568-836-11	SOCKET, CONNECTOR 17P	
CN1402	1-568-802-11	SOCKET, CONNECTOR 19P	
FL601	1-519-732-11	INDICATOR TUBE, FLUORESCENT	
FL1401	1-519-648-21	INDICATOR TUBE, FLUORESCENT	
RV1102	1-241-350-11	RES, VAR, CARBON 100K/100K (VOLUME)	

4-3. MECHANISM SECTION 1

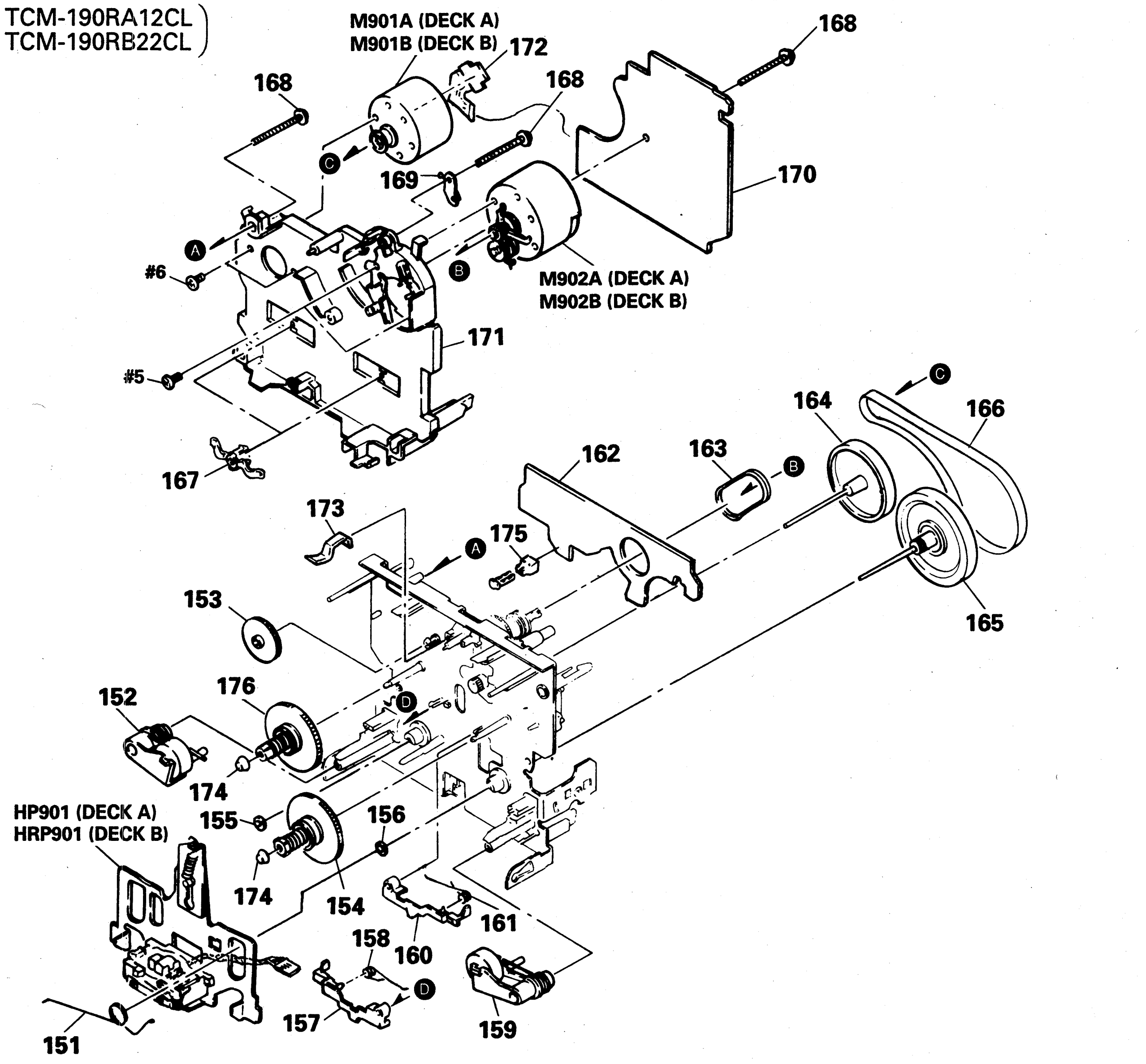
(TCM-190RA12CL
TCM-190RB22CL)


106
116
106
116
117
#3
108
109
106
102
104
105
115
TCM-190RA12CL
106
103
TCM-190RB22CL
not supplied
107
106
107
106
103
108
101
111
113
112
114
110
not supplied
106

Ref. No.	Part No.	Description	Remarks
101	3-354-959-01	SPRING (LOADING L), TORSION	
102	A-4325-163-A	HOLDER (L) ASSY, CASSETTE	
103	3-308-823-11	SPRING	
104	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
105	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
106	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
107	3-354-963-01	DAMPER	
108	3-354-957-01	JOINT (LOCK LEVER)	
* 109	3-354-953-01	LEVER (LOCK LEVER L)	
110	3-354-960-01	SPRING (LOADING R), TORSION	
111	A-4325-164-A	HOLDER (R) ASSY, CASSETTE	
112	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
113	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
* 114	3-354-954-01	LEVER (LOCK LEVER R)	
115	1-590-459-11	WIRE, FLAT TYPE (11 CORE)	
116	1-590-574-11	WIRE, FLAT TYPE (7 CORE)	
* 117	A-4347-227-A	TC SIGNAL BOARD, COMPLETE	

4-4. MECHANISM SECTION 2

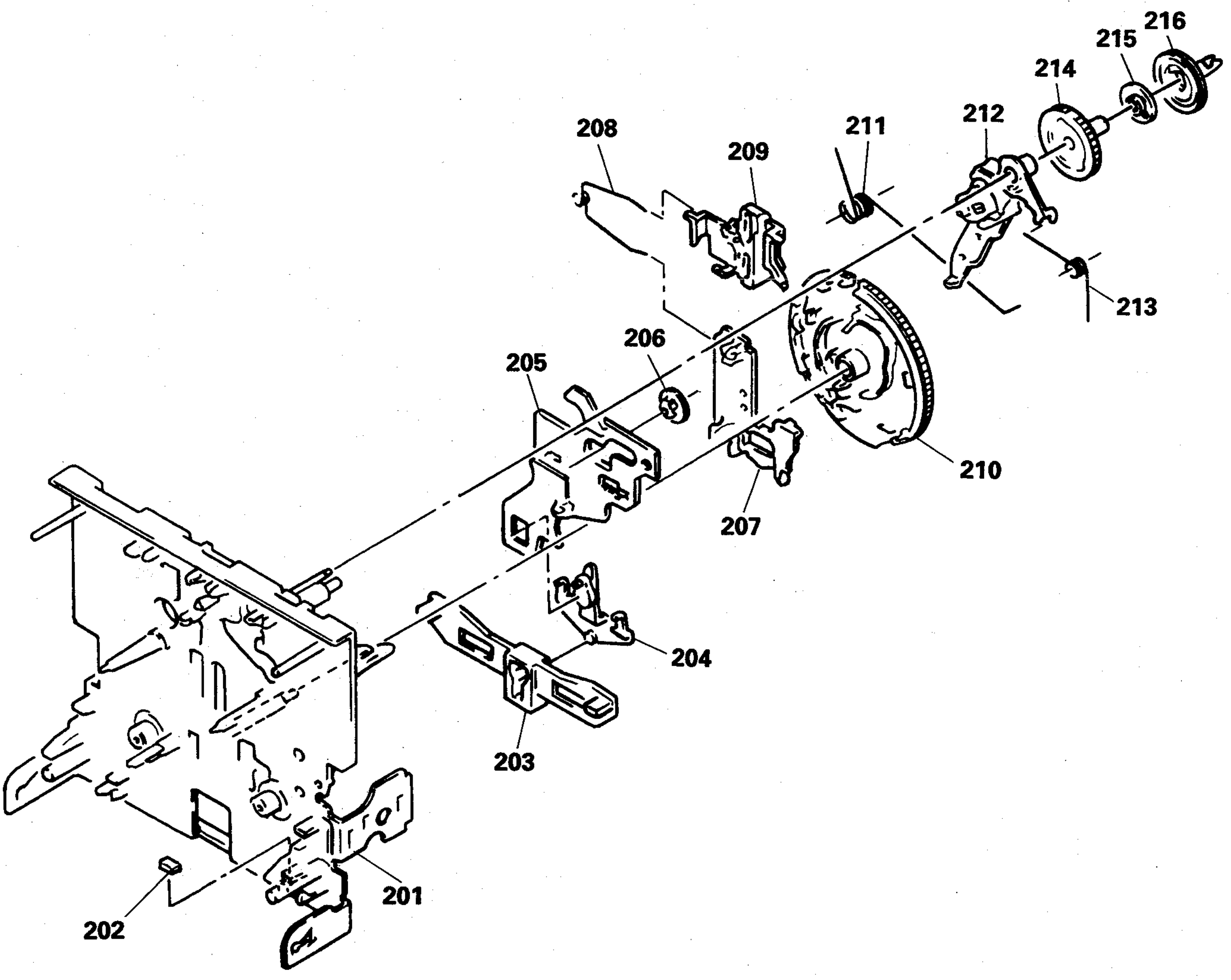
(TCM-190RA12CL
TCM-190RB22CL)


M901A (DECK A)
M901B (DECK B)
172
168
168
168
170
169
C
A
#6
B
M902A (DECK A)
M902B (DECK B)
171
#5
164
C
166
162
163
B
167
173
A
175
153
165
152
176
D
174
HP901 (DECK A)
HRP901 (DECK B)
155
156
174
154
161
158
160
D
151
157
159

Ref. No.	Part No.	Description	Remarks
151	3-359-455-01	SPRING, TORSION	
152	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
153	3-359-424-01	GEAR (REV GEAR)	
154	X-3359-404-1	TABLE ASSY, REEL	
155	3-356-714-01	WASHER	
156	3-356-713-01	WASHER	
157	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
158	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
159	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
160	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
161	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
* 162	1-638-020-11	LEAF SW BOARD (DECK A)	
* 162	1-638-020-11	LEAF SW BOARD (DECK B)	
163	3-359-466-01	BELT (FR), SQUARE	
164	X-3359-410-1	FLYWHEEL (REV) ASSY	
165	X-3364-554-1	FLYWHEEL (FWD) ASSY	
166	3-359-417-01	BELT (FLAT), CAPSTAN	
167	3-575-321-00	RETAINER, THRUST, CAPSTAN	
168	3-359-414-01	SCREW (+PTPWH 2X23)	
169	3-359-450-01	PLATE, GROUND	
* 170	A-2006-623-A	AUDIO BOARD, COMPLETE (DECK A)	
* 170	A-2006-624-A	AUDIO BOARD, COMPLETE (DECK B)	
* 171	3-359-436-11	BASE (THRUST RETAINER), FITTING	
172	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
173	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
174	3-362-308-01	CAP (REEL)	
175	3-343-419-01	HOLDER (S SENSER A)	
176	X-3362-078-1	TABLE ASSY (B), REEL	
* HP901	A-2003-757-A	BASE ASSY, HEAD (DECK A)	
HRP901	A-2003-930-A	BASE ASSY, HEAD (DECK B)	
M901A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M901B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	
M902A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M902B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	

4-5. MECHANISM SECTION 3

(TCM-190RA12CL
TCM-190RB22CL)



Ref. No.	Part No.	Description	Remarks
201	X-3359-415-1	BASE ASSY, MECHANICAL	
202	3-359-469-01	SPACER	
* 203	3-359-425-01	SLIDER (REVERSE SLIDER)	
204	3-359-426-01	LEVER (REVERSE LEVER)	
* 205	3-359-415-01	SLIDER (TRIGGER SLIDER)	
206	3-359-448-01	GEAR (TRIGGER)	
* 207	3-359-427-01	SLIDER (LEVERSE SLIDER)	
208	3-359-454-01	SPRING, TORSION	
209	3-359-429-01	SLIDER (BRAKE PLATE)	
210	3-359-420-01	GEAR (CAM GEAR)	
211	3-359-456-01	SPRING(TRIGGER SPRING), TORSION	
212	X-3359-405-1	LEVER (FR ARM) ASSY	
213	3-359-453-01	SPRING (FR ARM), TORSION	
214	3-359-419-01	GEAR (FR GEAR)	
215	3-359-421-01	CLUTCH (REEL DISK)	
216	3-359-418-01	PULLEY (FR PULLEY)	

MD-A **MD-B**

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example :
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- G : Germany Model
- IT : Italian Model
- EE : East European Model

Ref. No.	Part No.	Description			Remarks
*	A-2006-623-A	MD-A BOARD, COMPLETE			
		********************			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
		< JACK >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
		< CONNECTOR >			
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< IC >			
IC31	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
		< TRANSISTOR >			
Q71	8-729-602-36	TRANSISTOR 2SA1602			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11	1-238-012-11	RES, ADJ, CARBON 1K			
RV21	1-238-012-11	RES, ADJ, CARBON 1K			
RV71	1-238-016-11	RES, ADJ, CARBON 10K			
RV72	1-238-016-11	RES, ADJ, CARBON 10K			

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Ref. No.	Part No.	Description			Remarks
*	A-2006-624-A	MD-B BOARD, COMPLETE			
		********************			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C14	1-136-273-91	FILM	75PF	5%	630V
C15	1-164-080-11	CERAMIC	390PF	10%	50V
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C24	1-136-273-91	FILM	75PF	5%	630V

MD-B

Ref. No.	Part No.	Description			Remarks
C25	1-164-080-11	CERAMIC	390PF	10%	50V
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C33	1-124-234-00	ELECT	22uF	20%	16V
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C52	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C54	1-136-559-11	FILM	0.0047uF	5%	630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C57	1-164-346-11	CERAMIC CHIP	1uF		16V
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
		< JACK >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
		< CONNECTOR >			
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D31	8-719-404-46	DIODE MA110-TW			
		< IC >			
IC31	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W
JW5	1-216-295-00	METAL CHIP	0	5%	1/10W
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W
JW56	1-216-296-00	METAL CHIP	0	5%	1/8W
JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
JW58	1-216-296-00	METAL CHIP	0	5%	1/8W
JW59	1-216-296-00	METAL CHIP	0	5%	1/8W
JW60	1-216-296-00	METAL CHIP	0	5%	1/8W
JW61	1-216-296-00	METAL CHIP	0	5%	1/8W

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L11	1-410-780-11	INDUCTOR	27mH		
L21	1-410-780-11	INDUCTOR	27mH		
		< TRANSISTOR >			
Q51	8-729-808-01	TRANSISTOR	2SD1622-S		
Q52	8-729-808-01	TRANSISTOR	2SD1622-S		
Q53	8-729-808-01	TRANSISTOR	2SD1622-S		
Q71	8-729-602-36	TRANSISTOR	2SA1602		
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R15	1-249-430-11	CARBON	12K	5%	1/4W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R25	1-249-430-11	CARBON	12K	5%	1/4W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R41	1-249-393-11	CARBON	10	5%	1/4W
R42	1-249-393-11	CARBON	10	5%	1/4W
R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11	1-238-012-11	RES, ADJ, CARBON 1K			
RV12	1-238-551-11	RES, ADJ, CARBON 220K			
RV21	1-238-012-11	RES, ADJ, CARBON 1K			
RV22	1-238-551-11	RES, ADJ, CARBON 220K			
RV71	1-238-016-11	RES, ADJ, CARBON 10K			
RV72	1-238-016-11	RES, ADJ, CARBON 10K			
		< RELAY >			
RY31	1-515-726-11	RELAY			
		< TRANSFORMER >			
T51	1-406-419-11	COIL, BIAS OSCILLATION			

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When indicating parts by reference number, please include the board name.

MAIN

Ref. No.	Part No.	Description				Remarks
*	A-4347-228-A	MAIN BOARD, COMPLETE				(AEP, UK)
*	A-4347-367-A	MAIN BOARD, COMPLETE				(G, IT)
*	A-4347-612-A	MAIN BOARD, COMPLETE				(EE)
		********************				
		< CAPACITOR >				
C301	1-161-379-00	CERAMIC	0.01uF	20%	25V	(G, IT)
C302	1-124-477-11	ELECT	47uF	20%	25V	
C303	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C305	1-161-379-00	CERAMIC	0.01uF	20%	25V	(G, IT)
C306	1-161-379-00	CERAMIC	0.01uF	20%	25V	(G, IT)
C307	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C308	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C309	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C310	1-124-477-11	ELECT	47uF	20%	25V	
C311	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C312	1-101-006-00	CERAMIC	0.047uF		50V	
C313	1-123-382-00	ELECT	3.3uF	20%	100V	
C314	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C315	1-161-329-00	CERAMIC	0.0068uF	30%	16V	
C316	1-162-282-31	CERAMIC	100PF	10%	50V	
C317	1-162-292-31	CERAMIC	680PF	10%	50V	(G, IT)
C318	1-124-903-11	ELECT	1uF	20%	50V	
C320	1-124-903-11	ELECT	1uF	20%	50V	
C321	1-124-902-00	ELECT	0.47uF	20%	50V	
C322	1-124-463-00	ELECT	0.1uF	20%	50V	
C323	1-161-329-00	CERAMIC	0.0068uF	30%	16V	
C324	1-161-329-00	CERAMIC	0.0068uF	30%	16V	
C325	1-124-477-11	ELECT	47uF	20%	25V	
C326	1-124-907-11	ELECT	10uF	20%	50V	
C327	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C328	1-124-463-00	ELECT	0.1uF	20%	50V	
C329	1-124-927-11	ELECT	4.7uF	20%	100V	
C330	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C331	1-126-176-11	ELECT	220uF	20%	10V	
C332	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C335	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C336	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C339	1-162-210-31	CERAMIC	30PF	5%	50V	
C341	1-123-382-00	ELECT	3.3uF	20%	100V	
C342	1-123-382-00	ELECT	3.3uF	20%	100V	
C343	1-123-382-00	ELECT	3.3uF	20%	100V	
C344	1-123-382-00	ELECT	3.3uF	20%	100V	
C345	1-161-375-00	CERAMIC	0.0022uF	20%	50V	
C346	1-161-375-00	CERAMIC	0.0022uF	20%	50V	
C351	1-161-494-00	CERAMIC	0.022uF		25V	
C352	1-102-120-00	CERAMIC	0.0018uF	10%	50V	
C353	1-161-374-11	CERAMIC	0.0015uF	20%	50V	
C354	1-161-494-00	CERAMIC	0.022uF		25V	
C361	1-164-098-11	CERAMIC	0.047uF		12V	

Ref. No.	Part No.	Description				Remarks
C362	1-161-494-00	CERAMIC	0.022uF		25V	
C363	1-164-159-11	CERAMIC	0.1uF		50V	
C364	1-161-494-00	CERAMIC	0.022uF		25V	
C501	1-102-961-00	CERAMIC	27PF	5%	50V	
C502	1-102-961-00	CERAMIC	27PF	5%	50V	
C503	1-124-477-11	ELECT	47uF	20%	25V	
C504	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C505	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C506	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C507	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C521	1-124-925-11	ELECT	2.2uF	20%	100V	
C522	1-124-463-00	ELECT	0.1uF	20%	50V	
C523	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C524	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C525	1-124-477-11	ELECT	47uF	20%	25V	(AEP, UK, G, IT)
C525	1-126-101-11	ELECT	100uF	20%	16V	(EE)
C530	1-161-379-00	CERAMIC	0.01uF	20%	25V	(G, IT)
C531	1-136-173-00	FILM	0.47uF	5%	50V	
C532	1-161-494-00	CERAMIC	0.022uF		25V	
C533	1-124-463-00	ELECT	0.1uF	20%	50V	
C1001	1-124-257-00	ELECT	2.2uF	20%	50V	
C1002	1-162-282-31	CERAMIC	100PF	10%	50V	
C1003	1-162-282-31	CERAMIC	100PF	10%	50V	
C1004	1-124-477-11	ELECT	47uF	20%	25V	
C1005	1-161-377-00	CERAMIC	0.0047uF	20%	16V	
C1006	1-161-374-11	CERAMIC	0.0015uF	20%	50V	
C1007	1-124-464-11	ELECT	0.22uF	20%	50V	
C1008	1-124-477-11	ELECT	47uF	20%	25V	
C1009	1-124-477-11	ELECT	47uF	20%	25V	
C1010	1-124-925-11	ELECT	2.2uF	20%	100V	
C1011	1-162-286-31	CERAMIC	220PF	10%	50V	(G, IT)
C1012	1-124-925-11	ELECT	2.2uF	20%	100V	
C1013	1-162-290-31	CERAMIC	470PF	10%	50V	(G, IT)
C1014	1-161-494-00	CERAMIC	0.022uF		25V	
C1015	1-161-494-00	CERAMIC	0.022uF		25V	
C1016	1-162-286-31	CERAMIC	220PF	10%	50V	(G, IT)
C1051	1-124-257-00	ELECT	2.2uF	20%	50V	
C1052	1-162-282-31	CERAMIC	100PF	10%	50V	
C1053	1-162-282-31	CERAMIC	100PF	10%	50V	
C1054	1-124-477-11	ELECT	47uF	20%	25V	
C1055	1-161-377-00	CERAMIC	0.0047uF	20%	16V	
C1056	1-161-374-11	CERAMIC	0.0015uF	20%	50V	
C1057	1-124-464-11	ELECT	0.22uF	20%	50V	
C1058	1-124-477-11	ELECT	47uF	20%	25V	
C1059	1-124-477-11	ELECT	47uF	20%	25V	
C1060	1-124-925-11	ELECT	2.2uF	20%	100V	
C1061	1-162-286-31	CERAMIC	220PF	10%	50V	(G, IT)
C1062	1-124-925-11	ELECT	2.2uF	20%	100V	
C1063	1-162-290-31	CERAMIC	470PF	10%	50V	(G, IT)
C1064	1-161-494-00	CERAMIC	0.022uF		25V	

When indicating parts by reference number, please include the board name.

MAIN

Ref. No.	Part No.	Description			Remarks	
C1065	1-161-494-00	CERAMIC	0.022uF		25V	
C1066	1-162-286-31	CERAMIC	220PF	10%	50V	(G, IT)
C1101	1-124-925-11	ELECT	2.2uF	20%	100V	
C1102	1-162-282-31	CERAMIC	100PF	10%	50V	
C1103	1-162-282-31	CERAMIC	100PF	10%	50V	
C1104	1-124-907-11	ELECT	10uF	20%	50V	
C1105	1-124-252-00	ELECT	0.33uF	20%	50V	
C1106	1-136-160-00	FILM	0.039uF	5%	50V	
C1107	1-124-477-11	ELECT	47uF	20%	25V	
C1108	1-161-494-00	CERAMIC	0.022uF		25V	
C1120	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C1121	1-162-286-31	CERAMIC	220PF	10%	50V	
C1122	1-124-907-11	ELECT	10uF	20%	50V	
C1123	1-124-903-11	ELECT	1uF	20%	50V	
C1124	1-136-163-00	FILM	0.068uF	5%	50V	
C1125	1-124-902-00	ELECT	0.47uF	20%	50V	
C1126	1-136-158-00	FILM	0.027uF	5%	50V	
C1127	1-136-168-00	FILM	0.18uF	5%	50V	
C1128	1-136-153-00	FILM	0.01uF	5%	50V	
C1129	1-136-163-00	FILM	0.068uF	5%	50V	
C1130	1-130-478-00	MYLAR	0.0039uF	5%	50V	
C1131	1-136-159-00	FILM	0.033uF	5%	50V	
C1132	1-130-474-00	MYLAR	0.0018uF	5%	50V	
C1133	1-136-154-00	FILM	0.012uF	5%	50V	
C1134	1-162-292-31	CERAMIC	680PF	10%	50V	
C1135	1-161-377-00	CERAMIC	0.0047uF	20%	16V	
C1136	1-162-287-31	CERAMIC	270PF	10%	50V	
C1137	1-124-477-11	ELECT	47uF	20%	25V	
C1138	1-124-477-11	ELECT	47uF	20%	25V	
C1139	1-161-494-00	CERAMIC	0.022uF		25V	
C1140	1-161-494-00	CERAMIC	0.022uF		25V	
C1151	1-124-925-11	ELECT	2.2uF	20%	100V	
C1152	1-162-282-31	CERAMIC	100PF	10%	50V	
C1153	1-162-282-31	CERAMIC	100PF	10%	50V	
C1154	1-124-907-11	ELECT	10uF	20%	50V	
C1155	1-124-252-00	ELECT	0.33uF	20%	50V	
C1156	1-136-160-00	FILM	0.039uF	5%	50V	
C1157	1-124-477-11	ELECT	47uF	20%	25V	
C1158	1-161-494-00	CERAMIC	0.022uF		25V	
C1170	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C1171	1-162-286-31	CERAMIC	220PF	10%	50V	
C1172	1-124-907-11	ELECT	10uF	20%	50V	
C1173	1-124-903-11	ELECT	1uF	20%	50V	
C1174	1-136-163-00	FILM	0.068uF	5%	50V	
C1175	1-124-902-00	ELECT	0.47uF	20%	50V	
C1176	1-136-158-00	FILM	0.027uF	5%	50V	
C1177	1-136-168-00	FILM	0.18uF	5%	50V	
C1178	1-136-153-00	FILM	0.01uF	5%	50V	
C1179	1-136-163-00	FILM	0.068uF	5%	50V	
C1180	1-130-478-00	MYLAR	0.0039uF	5%	50V	

Ref. No.	Part No.	Description			Remarks	
C1181	1-136-159-00	FILM	0.033uF	5%	50V	
C1182	1-130-474-00	MYLAR	0.0018uF	5%	50V	
C1183	1-136-154-00	FILM	0.012uF	5%	50V	
C1184	1-162-292-31	CERAMIC	680PF	10%	50V	
C1185	1-161-377-00	CERAMIC	0.0047uF	20%	16V	
C1186	1-162-287-31	CERAMIC	270PF	10%	50V	
C1187	1-124-477-11	ELECT	47uF	20%	25V	
C1188	1-124-477-11	ELECT	47uF	20%	25V	
C1189	1-161-494-00	CERAMIC	0.022uF		25V	
C1201	1-124-925-11	ELECT	2.2uF	20%	100V	
C1202	1-162-286-31	CERAMIC	220PF	10%	50V	(AEP, UK, EE)
C1202	1-162-290-31	CERAMIC	470PF	10%	50V	(G, IT)
C1203	1-162-286-31	CERAMIC	220PF	10%	50V	(AEP, UK, EE)
C1203	1-162-290-31	CERAMIC	470PF	10%	50V	(G, IT)
C1204	1-124-477-11	ELECT	47uF	20%	25V	
C1205	1-124-910-11	ELECT	47uF	20%	50V	
C1206	1-124-122-11	ELECT	100uF	20%	50V	
C1207	1-136-165-00	FILM	0.1uF	5%	50V	
C1208	1-126-233-11	ELECT	22uF	20%	50V	
C1209	1-136-165-00	FILM	0.1uF	5%	50V	
C1210	1-136-163-00	FILM	0.068uF	5%	50V	
C1211	1-136-163-00	FILM	0.068uF	5%	50V	
C1212	1-126-233-11	ELECT	22uF	20%	50V	
C1213	1-126-233-11	ELECT	22uF	20%	50V	
C1214	1-101-006-00	CERAMIC	0.047uF		50V	(G, IT)
C1216	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)
C1220	1-124-910-11	ELECT	47uF	20%	50V	
C1221	1-126-101-11	ELECT	100uF	20%	16V	
C1222	1-126-176-11	ELECT	220uF	20%	10V	
C1223	1-126-176-11	ELECT	220uF	20%	10V	
C1230	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)
C1231	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)
C1232	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)
C1233	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)
C1251	1-124-925-11	ELECT	2.2uF	20%	100V	
C1252	1-162-286-31	CERAMIC	220PF	10%	50V	(AEP, UK, EE)
C1252	1-162-290-31	CERAMIC	470PF	10%	50V	(G, IT)
C1253	1-162-286-31	CERAMIC	220PF	10%	50V	(AEP, UK, EE)
C1253	1-162-290-31	CERAMIC	470PF	10%	50V	(G, IT)
C1254	1-124-477-11	ELECT	47uF	20%	25V	
C1255	1-124-910-11	ELECT	47uF	20%	50V	
C1256	1-124-122-11	ELECT	100uF	20%	50V	
C1257	1-136-165-00	FILM	0.1uF	5%	50V	
C1260	1-136-163-00	FILM	0.068uF	5%	50V	
C1261	1-136-163-00	FILM	0.068uF	5%	50V	
C1262	1-126-233-11	ELECT	22uF	20%	50V	
C1263	1-126-233-11	ELECT	22uF	20%	50V	
C1264	1-101-006-00	CERAMIC	0.047uF		50V	(G, IT)
C1266	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)
C1280	1-161-494-00	CERAMIC	0.022uF		25V	(G, IT)

When indicating parts by reference number, please include the board name.

MAIN

Ref. No.	Part No.	Description			Remarks
C1302	1-102-394-11	CERAMIC	0.01uF		250V
C1303	1-136-165-00	FILM	0.1uF	5%	50V
C1304	1-136-165-00	FILM	0.1uF	5%	50V
C1305	1-126-224-11	ELECT	4700uF	20%	42V
C1306	1-126-224-11	ELECT	4700uF	20%	42V
C1307	1-124-903-11	ELECT	1uF	20%	50V
C1308	1-102-394-11	CERAMIC	0.01uF		250V
C1309	1-124-122-11	ELECT	100uF	20%	50V
C1310	1-124-122-11	ELECT	100uF	20%	50V
C1311	1-126-105-11	ELECT	1000uF	20%	35V
C1312	1-126-101-11	ELECT	100uF	20%	16V
C1313	1-124-477-11	ELECT	47uF	20%	25V
C1314	1-124-122-11	ELECT	100uF	20%	50V (AEP, UK, G, EE)
C1315	1-126-101-11	ELECT	100uF	20%	16V (AEP, UK, G, EE)
C1317	1-124-636-00	ELECT	3300uF	20%	25V
C1318	1-124-636-00	ELECT	3300uF	20%	25V
C1319	1-124-907-11	ELECT	10uF	20%	50V
C1320	1-124-907-11	ELECT	10uF	20%	50V
C1325	1-126-103-11	ELECT	470uF	20%	16V
C1326	1-124-585-11	ELECT	3300uF	20%	10V
C1326	1-124-907-11	ELECT	10uF	20%	50V
C1328	1-124-585-11	ELECT	3300uF	20%	10V
C1346	1-124-477-11	ELECT	47uF	20%	25V

< FILTER >

Ref. No.	Part No.	Description
CF301	1-577-070-81	FILTER, CERAMIC (AEP, UK, EE)
CF301	1-567-389-11	FILTER, CERAMIC (G, IT)
CF302	1-567-389-11	FILTER, CERAMIC (G, IT)
CF303	1-577-070-81	FILTER, CERAMIC (AEP, UK, EE)
CF303	1-567-389-11	FILTER, CERAMIC (G, IT)
CF304	1-577-075-11	OSCILLATOR, CERAMIC

< CONNECTOR >

Ref. No.	Part No.	Description
* CN501	1-568-830-11	SOCKET, CONNECTOR 11P
* CN1001	1-580-691-11	JACK, PIN 2P (PHONO)
* CN1002	1-580-912-11	JACK, PIN 4P (CD/VIDEO)
* CN1003	1-564-508-11	PLUG, CONNECTOR 5P
* CN1004	1-568-836-11	SOCKET, CONNECTOR 17P
CN1201	1-569-130-11	JACK, PIN 2P (SURROUND)
* CN1203	1-564-506-11	PLUG, CONNECTOR 3P
* CN1204	1-564-510-11	PLUG, CONNECTOR 7P
* CN1302	1-566-210-11	PIN, CONNECTOR 3P (AEP, UK, G, EE)
* CN1303	1-564-509-11	PLUG, CONNECTOR 6P
* CN1304	1-568-934-11	PIN, CONNECTOR 7P
* CN1305	1-568-830-11	SOCKET, CONNECTOR 11P
CN1306	1-568-802-11	SOCKET, CONNECTOR 19P

< COMPOSITION CIRCUIT BLOCK >

Ref. No.	Part No.	Description
CP1101	1-239-053-11	COMPOSITION CIRCUIT BLOCK
CP1151	1-239-053-11	COMPOSITION CIRCUIT BLOCK

< DIODE >

Ref. No.	Part No.	Description	Remarks
D351	8-719-987-63	DIODE	1N4148M
D1201	8-719-987-63	DIODE	1N4148M
D1202	8-719-987-63	DIODE	1N4148M
D1203	8-719-987-63	DIODE	1N4148M
D1204	8-719-987-63	DIODE	1N4148M
D1251	8-719-987-63	DIODE	1N4148M
D1303	8-719-987-63	DIODE	1N4148M
D1304	8-719-987-63	DIODE	1N4148M
D1305	8-719-312-09	DIODE	RBA-402
D1306	8-719-200-82	DIODE	11ES2
D1307	8-719-200-82	DIODE	11ES2
D1308	8-719-200-82	DIODE	11ES2
D1309	8-719-200-82	DIODE	11ES2
D1310	8-719-200-82	DIODE	11ES2
D1311	8-719-200-82	DIODE	11ES2
D1312	8-719-200-82	DIODE	11ES2
D1313	8-719-200-82	DIODE	11ES2
D1314	8-719-001-76	DIODE	UZL-12M3
D1315	8-719-200-82	DIODE	11ES2
D1316	8-719-200-82	DIODE	11ES2
D1331	8-719-200-82	DIODE	11ES2

< FRONTEND >

Ref. No.	Part No.	Description
FE301	1-465-006-11	FRONT END (FM) (2 GANG) (AEP, UK)
FE301	1-463-857-21	FRONT END (FM) (G, IT)
FE301	1-465-396-11	FRONT END (FM 3GANG) (EE)
FE351	1-236-463-11	ENCAPSULATED COMPONENT
FE352	1-236-462-11	ENCAPSULATED COMPONENT

< IC >

Ref. No.	Part No.	Description	Remarks
IC301	8-759-821-45	IC	LA1851N
IC501	8-759-820-91	IC	LC7218
IC1001	8-759-634-51	IC	M5218AP
IC1002	8-759-000-48	IC	uPD4052BC-A
IC1003	8-759-000-49	IC	uPD4066BC
IC1004	8-759-634-51	IC	M5218AP
IC1005	8-759-000-49	IC	uPD4066BC
IC1101	8-759-634-51	IC	M5218AP
IC1102	8-759-000-48	IC	uPD4052BC-A
IC1103	8-759-000-48	IC	uPD4052BC-A
IC1104	8-759-804-49	IC	LC7522
IC1105	8-759-633-78	IC	M5289P
IC1155	8-759-633-78	IC	M5289P
IC1201	8-749-920-09	IC	STK-4152MK2K
IC1202	8-759-111-68	IC	uPC1237HA
IC1301	8-759-231-58	IC	M5F7812L (AEP, UK, G, EE)

When indicating parts by reference number, please include the board name.

MAIN

Ref. No.	Part No.	Description	Remarks
IC1302	8-759-604-86	IC M5F7807	
IC1303	8-759-604-90	IC M5F7907L	
IC1304	8-759-231-53	IC M5F7805L	

< IFT >

Ref. No.	Part No.	Description	Remarks
IFT301	1-404-713-11	TRANSFORMER, IF	

< COIL >

Ref. No.	Part No.	Description	Remarks
L301	1-407-500-00	INDUCTOR 4.7mH	
L351	1-410-525-11	INDUCTOR 220uH	
L1201	1-420-872-00	COIL, AIR CORE	
L1251	1-420-872-00	COIL, AIR CORE	
L1301	1-408-117-00	INDUCTOR 10uH (G)	
L1302	1-408-117-00	INDUCTOR 10uH (G)	

< FILTER >

Ref. No.	Part No.	Description	Remarks
LPF301	1-235-164-00	FILTER, LOW PASS	
LPF302	1-235-164-00	FILTER, LOW PASS	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remarks
Q301	8-729-230-XX	TRANSISTOR 2SC2669OY-TPE4 (G, IT)	
Q302	8-729-230-XX	TRANSISTOR 2SC2669OY-TPE4 (G, IT)	
Q303	8-729-230-XX	TRANSISTOR 2SC2669OY	
Q304	8-729-230-XX	TRANSISTOR 2SC2669OY	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-900-61	TRANSISTOR DTA114ES	
Q307	8-729-900-80	TRANSISTOR DTC114ES	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-900-80	TRANSISTOR DTC114ES	
Q352	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q353	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q354	8-729-900-80	TRANSISTOR DTC114ES	
Q355	8-729-900-80	TRANSISTOR DTC114ES	
Q356	8-729-900-80	TRANSISTOR DTC114ES	
Q501	8-729-900-80	TRANSISTOR DTC114ES	
Q502	8-729-900-61	TRANSISTOR DTA114ES	
Q521	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q522	8-729-201-84	TRANSISTOR 2SC3112-B	
Q531	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q532	8-729-201-84	TRANSISTOR 2SC3112-B	
Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1004	8-729-900-36	TRANSISTOR DTC124ES	
Q1005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1006	8-729-900-36	TRANSISTOR DTC124ES	
Q1101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1151	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1202	8-729-900-80	TRANSISTOR DTC114ES	
Q1203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1204	8-729-900-63	TRANSISTOR DTA124ES	
Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1301	8-729-209-15	TRANSISTOR 2SD2012	

< RESISTOR >

Ref. No.	Part No.	Description	Remarks
R301	1-249-401-11	CARBON 47 5% 1/4W	
R302	1-249-413-11	CARBON 470 5% 1/4W (AEP, UK, EE)	
R302	1-249-405-11	CARBON 100 5% 1/4W (G, IT)	
R303	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R304	1-249-432-11	CARBON 18K 5% 1/4W (G, IT)	
R305	1-249-411-11	CARBON 330 5% 1/4W (G, IT)	
R306	1-249-434-11	CARBON 27K 5% 1/4W (G, IT)	
R307	1-249-414-11	CARBON 560 5% 1/4W (G, IT)	
R308	1-249-411-11	CARBON 330 5% 1/4W	
R309	1-249-432-11	CARBON 18K 5% 1/4W	
R310	1-249-411-11	CARBON 330 5% 1/4W	
R311	1-249-434-11	CARBON 27K 5% 1/4W	
R312	1-249-414-11	CARBON 560 5% 1/4W	
R313	1-249-405-11	CARBON 100 5% 1/4W	
R314	1-249-437-11	CARBON 47K 5% 1/4W (G, IT)	
R315	1-249-435-11	CARBON 33K 5% 1/4W (G, IT)	
R316	1-249-429-11	CARBON 10K 5% 1/4W	
R317	1-249-417-11	CARBON 1K 5% 1/4W	
R318	1-249-435-11	CARBON 33K 5% 1/4W	
R319	1-249-428-11	CARBON 8.2K 5% 1/4W	
R320	1-249-432-11	CARBON 18K 5% 1/4W	
R321	1-249-423-11	CARBON 3.3K 5% 1/4W	
R322	1-249-429-11	CARBON 10K 5% 1/4W	
R323	1-249-418-11	CARBON 1.2K 5% 1/4W (AEP, UK, EE)	
R323	1-249-417-11	CARBON 1K 5% 1/4W (G, IT)	
R324	1-249-429-11	CARBON 10K 5% 1/4W	
R325	1-249-429-11	CARBON 10K 5% 1/4W	
R326	1-249-409-11	CARBON 220 5% 1/4W	
R327	1-249-437-11	CARBON 47K 5% 1/4W	
R328	1-249-437-11	CARBON 47K 5% 1/4W	
R331	1-247-891-00	CARBON 330K 5% 1/4W	
R332	1-247-891-00	CARBON 330K 5% 1/4W	
R333	1-249-421-11	CARBON 2.2K 5% 1/4W	
R334	1-249-421-11	CARBON 2.2K 5% 1/4W	
R335	1-249-420-11	CARBON 1.8K 5% 1/4W	
R336	1-249-420-11	CARBON 1.8K 5% 1/4W	
R337	1-249-426-11	CARBON 5.6K 5% 1/4W	
R338	1-249-426-11	CARBON 5.6K 5% 1/4W	
R351	1-249-433-11	CARBON 22K 5% 1/4W	
R352	1-249-437-11	CARBON 47K 5% 1/4W	
R353	1-247-903-00	CARBON 1M 5% 1/4W	
R354	1-249-441-11	CARBON 100K 5% 1/4W	
R355	1-249-433-11	CARBON 22K 5% 1/4W	

When indicating parts by reference number, please include the board name.

MAIN

Ref. No.	Part No.	Description				Remarks
R356	1-249-421-11	CARBON	2.2K	5%	1/4W	
R361	1-249-437-11	CARBON	47K	5%	1/4W	
R362	1-249-437-11	CARBON	47K	5%	1/4W	
R363	1-249-425-11	CARBON	4.7K	5%	1/4W	
R364	1-249-425-11	CARBON	4.7K	5%	1/4W	
R365	1-249-429-11	CARBON	10K	5%	1/4W	
R366	1-249-413-11	CARBON	470	5%	1/4W	
R367	1-249-434-11	CARBON	27K	5%	1/4W	
R368	1-249-433-11	CARBON	22K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	
R502	1-249-417-11	CARBON	1K	5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-417-11	CARBON	1K	5%	1/4W	
R510	1-249-401-11	CARBON	47	5%	1/4W	
R511	1-249-429-11	CARBON	10K	5%	1/4W	
R512	1-249-425-11	CARBON	4.7K	5%	1/4W	
R513	1-249-417-11	CARBON	1K	5%	1/4W	
R514	1-249-429-11	CARBON	10K	5%	1/4W	
R515	1-249-417-11	CARBON	1K	5%	1/4W	
R521	1-249-423-11	CARBON	3.3K	5%	1/4W	
R522	1-249-425-11	CARBON	4.7K	5%	1/4W	
R523	1-249-414-11	CARBON	560	5%	1/4W	
R524	1-249-417-11	CARBON	1K	5%	1/4W	
R525	1-249-410-11	CARBON	270	5%	1/4W	
R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
R527	1-249-425-11	CARBON	4.7K	5%	1/4W	
R528	1-249-425-11	CARBON	4.7K	5%	1/4W	
R529	1-249-405-11	CARBON	100	5%	1/4W	
R530	1-249-405-11	CARBON	100	5%	1/4W	
R531	1-249-423-11	CARBON	3.3K	5%	1/4W	
R532	1-249-433-11	CARBON	22K	5%	1/4W	
R533	1-249-414-11	CARBON	560	5%	1/4W	
R534	1-249-417-11	CARBON	1K	5%	1/4W	
R535	1-249-410-11	CARBON	270	5%	1/4W	
R536	1-249-421-11	CARBON	2.2K	5%	1/4W	
R537	1-249-425-11	CARBON	4.7K	5%	1/4W	
R538	1-249-405-11	CARBON	100	5%	1/4W	
R1001	1-249-417-11	CARBON	1K	5%	1/4W	(G, IT)
R1002	1-249-417-11	CARBON	1K	5%	1/4W	
R1003	1-249-441-11	CARBON	100K	5%	1/4W	
R1004	1-249-416-11	CARBON	820	5%	1/4W	
R1005	1-247-897-11	CARBON	560K	5%	1/4W	
R1006	1-249-437-11	CARBON	47K	5%	1/4W	
R1007	1-249-409-11	CARBON	220	5%	1/4W	
R1008	1-249-441-11	CARBON	100K	5%	1/4W	
R1009	1-249-409-11	CARBON	220	5%	1/4W	
R1010	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1011	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1012	1-249-417-11	CARBON	1K	5%	1/4W	
R1013	1-249-441-11	CARBON	100K	5%	1/4W	
R1014	1-249-437-11	CARBON	47K	5%	1/4W	
R1016	1-249-437-11	CARBON	47K	5%	1/4W	
R1017	1-249-434-11	CARBON	27K	5%	1/4W	
R1018	1-249-429-11	CARBON	10K	5%	1/4W	
R1020	1-249-433-11	CARBON	22K	5%	1/4W	
R1021	1-249-433-11	CARBON	22K	5%	1/4W	
R1022	1-249-433-11	CARBON	22K	5%	1/4W	
R1023	1-249-433-11	CARBON	22K	5%	1/4W	
R1024	1-249-433-11	CARBON	22K	5%	1/4W	
R1025	1-249-433-11	CARBON	22K	5%	1/4W	
R1026	1-249-433-11	CARBON	22K	5%	1/4W	
R1029	1-249-433-11	CARBON	22K	5%	1/4W	
R1030	1-249-433-11	CARBON	22K	5%	1/4W	
R1031	1-249-433-11	CARBON	22K	5%	1/4W	
R1032	1-249-433-11	CARBON	22K	5%	1/4W	
R1051	1-249-417-11	CARBON	1K	5%	1/4W	(G, IT)
R1052	1-249-417-11	CARBON	1K	5%	1/4W	
R1053	1-249-441-11	CARBON	100K	5%	1/4W	
R1054	1-249-416-11	CARBON	820	5%	1/4W	
R1055	1-247-897-11	CARBON	560K	5%	1/4W	
R1056	1-249-437-11	CARBON	47K	5%	1/4W	
R1057	1-249-409-11	CARBON	220	5%	1/4W	
R1058	1-249-441-11	CARBON	100K	5%	1/4W	
R1059	1-249-409-11	CARBON	220	5%	1/4W	
R1060	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1061	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1062	1-249-417-11	CARBON	1K	5%	1/4W	
R1063	1-249-441-11	CARBON	100K	5%	1/4W	
R1064	1-249-437-11	CARBON	47K	5%	1/4W	
R1066	1-249-437-11	CARBON	47K	5%	1/4W	
R1067	1-249-434-11	CARBON	27K	5%	1/4W	
R1068	1-249-429-11	CARBON	10K	5%	1/4W	
R1101	1-249-441-11	CARBON	100K	5%	1/4W	
R1102	1-249-417-11	CARBON	1K	5%	1/4W	
R1103	1-249-441-11	CARBON	100K	5%	1/4W	
R1104	1-249-429-11	CARBON	10K	5%	1/4W	
R1105	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1106	1-249-412-11	CARBON	390	5%	1/4W	
R1107	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1108	1-249-441-11	CARBON	100K	5%	1/4W	
R1109	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1110	1-249-441-11	CARBON	100K	5%	1/4W	
R1111	1-249-431-11	CARBON	15K	5%	1/4W	
R1112	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1113	1-249-429-11	CARBON	10K	5%	1/4W	
R1114	1-249-435-11	CARBON	33K	5%	1/4W	
R1115	1-249-432-11	CARBON	18K	5%	1/4W	
R1116	1-249-433-11	CARBON	22K	5%	1/4W	

When indicating parts by reference number, please include the board name.

MAIN

Ref. No.	Part No.	Description				Remarks
R1117	1-249-433-11	CARBON	22K	5%	1/4W	
R1118	1-249-433-11	CARBON	22K	5%	1/4W	
R1119	1-249-433-11	CARBON	22K	5%	1/4W	
R1120	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1127	1-249-417-11	CARBON	1K	5%	1/4W	
R1128	1-249-417-11	CARBON	1K	5%	1/4W	
R1130	1-249-441-11	CARBON	100K	5%	1/4W	
R1151	1-249-441-11	CARBON	100K	5%	1/4W	
R1152	1-249-417-11	CARBON	1K	5%	1/4W	
R1153	1-249-441-11	CARBON	100K	5%	1/4W	
R1154	1-249-429-11	CARBON	10K	5%	1/4W	
R1155	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1156	1-249-412-11	CARBON	390	5%	1/4W	
R1157	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1158	1-249-441-11	CARBON	100K	5%	1/4W	
R1159	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1160	1-249-441-11	CARBON	100K	5%	1/4W	
R1161	1-249-431-11	CARBON	15K	5%	1/4W	
R1162	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1170	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1180	1-249-441-11	CARBON	100K	5%	1/4W	
R1201	1-249-417-11	CARBON	1K	5%	1/4W	
R1202	1-249-438-11	CARBON	56K	5%	1/4W	
R1203	1-249-414-11	CARBON	560	5%	1/4W	
R1204	1-249-438-11	CARBON	56K	5%	1/4W	
R1205	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1206	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1207	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1208	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R1209	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R1210	1-217-151-00	RES, METAL PLATE	0.22		2W	
R1211	1-249-417-11	CARBON	1K	5%	1/4W	
R1212	1-249-431-11	CARBON	15K	5%	1/4W	
R1213	1-249-441-11	CARBON	100K	5%	1/4W	
R1214	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1215	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1216	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1217	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1218	1-249-397-11	CARBON	22	5%	1/4W	
R1219	1-249-397-11	CARBON	22	5%	1/4W	
R1220	1-249-397-11	CARBON	22	5%	1/4W	
R1221	1-249-397-11	CARBON	22	5%	1/4W	
R1222	1-249-416-11	CARBON	820	5%	1/4W	
R1223	1-249-416-11	CARBON	820	5%	1/4W	
R1224	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1225	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
⚠R1226	1-215-915-11	METAL OXIDE	470	5%	3W	F
R1227	1-249-429-11	CARBON	10K	5%	1/4W	
R1228	1-247-881-00	CARBON	120K	5%	1/4W	
R1229	1-249-439-11	CARBON	68K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R1230	1-249-439-11	CARBON	68K	5%	1/4W	
R1231	1-249-417-11	CARBON	1K	5%	1/4W	
R1232	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1233	1-249-433-11	CARBON	22K	5%	1/4W	
R1234	1-249-433-11	CARBON	22K	5%	1/4W	
R1235	1-249-435-11	CARBON	33K	5%	1/4W	
R1236	1-249-441-11	CARBON	100K	5%	1/4W	
R1237	1-249-429-11	CARBON	10K	5%	1/4W	
R1238	1-249-433-11	CARBON	22K	5%	1/4W	
R1239	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1240	1-249-438-11	CARBON	56K	5%	1/4W	
R1251	1-249-417-11	CARBON	1K	5%	1/4W	
R1252	1-249-438-11	CARBON	56K	5%	1/4W	
R1253	1-249-414-11	CARBON	560	5%	1/4W	
R1254	1-249-438-11	CARBON	56K	5%	1/4W	
R1255	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1256	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1257	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1258	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R1259	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R1260	1-217-151-00	RES, METAL PLATE	0.22		2W	
R1261	1-249-417-11	CARBON	1K	5%	1/4W	
R1262	1-249-431-11	CARBON	15K	5%	1/4W	
R1263	1-249-441-11	CARBON	100K	5%	1/4W	
R1268	1-249-397-11	CARBON	22	5%	1/4W	
R1269	1-249-397-11	CARBON	22	5%	1/4W	
R1270	1-249-397-11	CARBON	22	5%	1/4W	
R1271	1-249-397-11	CARBON	22	5%	1/4W	
R1272	1-249-416-11	CARBON	820	5%	1/4W	
R1273	1-249-416-11	CARBON	820	5%	1/4W	
R1274	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1275	1-249-385-11	CARBON	2.2	5%	1/6W	(G, IT)
R1290	1-249-437-11	CARBON	47K	5%	1/4W	
R1301	1-249-429-11	CARBON	10K	5%	1/4W	
R1302	1-249-429-11	CARBON	10K	5%	1/4W	
R1303	1-249-421-11	CARBON	2.2K	5%	1/4W	
R315B	1-249-404-00	CARBON	82	5%	1/4W	

< VARIABLE RESISTOR >

RV301	1-238-601-11	RES, ADJ, CARBON, 22K (AM TUNED)
RV302	1-238-601-11	RES, ADJ, CARBON, 22K (FM TUNED)

< RELAY >

RY1201	1-515-533-11	RELAY

< TRANSFORMER >

T301	1-404-807-11	TRANSFORMER, DISCRIMINATOR
T302	1-235-126-00	ENCAPSULATED COMPONENT (G, IT)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

MAIN LAEF SW(A) LAEF SW(B) PANEL

< TERMINAL >

Ref. No.	Part No.	Description	Remarks
* TM301	1-537-288-11	TERMINAL BOARD, ANTENNA (PAL)	
TM301	1-537-288-31	TERMINAL BOARD, ANTENNA (PAL)	
TM1201	1-537-326-11	TERMINAL BOARD (AEP, UK, EE)	
* TM1201	1-537-327-11	TERMINAL BOARD (G, IT)	

< TEST PIN >

Ref. No.	Part No.	Description	Remarks
* TP1	1-560-060-00	PIN, CONNECTOR 2P	

< VIBRATOR >

Ref. No.	Part No.	Description	Remarks
XT501	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)	

****

Ref. No.	Part No.	Description	Remarks
*	1-638-020-11	LEAF SW(A) BOARD (DECK A)	

****

< CONNECTOR >

Ref. No.	Part No.	Description	Remarks
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P	

< IC >

Ref. No.	Part No.	Description	Remarks
IC81	8-719-710-03	DIODE NJL5165K-B	

< RESISTOR >

Ref. No.	Part No.	Description	Remarks
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	

< SWITCH >

Ref. No.	Part No.	Description	Remarks
S81	1-571-958-11	SWITCH, PUSH (1 KEY)	
S82	1-571-281-21	SWITCH, LEAF	
S86	1-571-281-21	SWITCH, LEAF	

****

Ref. No.	Part No.	Description	Remarks
*	1-638-020-11	LEAF SW(B) BOARD (DECK B)	

****

< CONNECTOR >

Ref. No.	Part No.	Description	Remarks
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P	

< IC >

Ref. No.	Part No.	Description	Remarks
IC81	8-719-710-03	DIODE NJL5165K-B	

< RESISTOR >

Ref. No.	Part No.	Description	Remarks
R81	1-249-414-11	CARBON 560 5% 1/4W	
R82	1-247-818-11	CARBON 300 5% 1/4W	
R83	1-247-834-11	CARBON 1.3K 5% 1/4W	
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	

< SWITCH >

Ref. No.	Part No.	Description	Remarks
S81	1-571-958-11	SWITCH, PUSH (1 KEY)	
S82	1-571-281-21	SWITCH, LEAF	
S84	1-571-281-21	SWITCH, LEAF	
S85	1-571-281-21	SWITCH, LEAF	
S86	1-571-281-21	SWITCH, LEAF	

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Ref. No.	Part No.	Description	Remarks
*	A-4347-232-A	PANEL BOARD, COMPLETE (AEP, UK, G)	
*	A-4347-371-A	PANEL BOARD, COMPLETE (IT)	
*	A-4347-614-A	PANEL BOARD, COMPLETE (EE)	

****

< CAPACITOR >

Ref. No.	Part No.	Description	Remarks
C601	1-125-486-11	DOUBLE LAYERS 0.22F 5.5V	
C602	1-136-153-00	FILM 0.01uF 5% 50V	
C603	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C604	1-124-907-11	ELECT 10uF 20% 50V	
C605	1-126-233-11	ELECT 22uF 20% 50V	
C606	1-102-951-00	CERAMIC 15PF 5% 50V	
C607	1-102-949-00	CERAMIC 12PF 5% 50V	
C608	1-124-927-11	ELECT 4.7uF 20% 100V	
C609	1-136-153-00	FILM 0.01uF 5% 50V	
C610	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C650	1-124-907-11	ELECT 10uF 20% 50V	(AEP, UK, G, IT)
C1401	1-136-165-00	FILM 0.1uF 5% 50V	
C1402	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C1403	1-126-101-11	ELECT 100uF 20% 16V	
C1404	1-161-494-00	CERAMIC 0.022uF 25V	
C1405	1-125-486-11	DOUBLE LAYERS 0.22F 5.5V	
C1406	1-126-096-11	ELECT 10uF 20% 35V	
C1407	1-126-096-11	ELECT 10uF 20% 35V	
C1408	1-161-374-11	CERAMIC 0.0015uF 20% 50V	
C1409	1-161-494-00	CERAMIC 0.022uF 25V	
C1410	1-126-101-11	ELECT 100uF 20% 16V	
C1411	1-161-494-00	CERAMIC 0.022uF 25V	
C1412	1-124-907-11	ELECT 10uF 20% 50V	
C1413	1-161-494-00	CERAMIC 0.022uF 25V	
C1414	1-124-907-11	ELECT 10uF 20% 50V	
C1415	1-162-294-31	CERAMIC 0.001uF 10% 50V	

< FILTER >

Ref. No.	Part No.	Description	Remarks
CF1401	1-567-775-11	VIBRATOR, CERAMIC	

< CONNECTOR >

Ref. No.	Part No.	Description	Remarks
* CN601	1-568-830-11	SOCKET, CONNECTOR 11P	
* CN1401	1-568-836-11	SOCKET, CONNECTOR 17P	
CN1402	1-568-802-11	SOCKET, CONNECTOR 19P	

When indicating parts by reference number, please include the board name.

PANEL

Ref. No.	Part No.	Description	Remarks
		< COMPOSITION CIRCUIT BLOCK >	
CP1401	1-239-054-11	COMPOSITION CIRCUIT BLOCK	
CP1402	1-239-054-11	COMPOSITION CIRCUIT BLOCK	
		< DIODE >	
D601	8-719-987-63	DIODE 1N4148M	
D602	8-719-987-63	DIODE 1N4148M	
D603	8-719-987-63	DIODE 1N4148M	
D604	8-719-987-63	DIODE 1N4148M	
D605	8-719-987-63	DIODE 1N4148M (IT)	
D609	8-719-987-63	DIODE 1N4148M	
D610	8-719-987-63	DIODE 1N4148M	
D612	8-719-987-63	DIODE 1N4148M	
D613	8-719-987-63	DIODE 1N4148M	
D614	8-719-987-63	DIODE 1N4148M	
D615	8-719-987-63	DIODE 1N4148M	
D616	8-719-987-63	DIODE 1N4148M	
D617	8-719-987-63	DIODE 1N4148M	
D618	8-719-987-63	DIODE 1N4148M	
D619	8-719-987-63	DIODE 1N4148M	
D620	8-719-987-63	DIODE 1N4148M	
D621	8-719-987-63	DIODE 1N4148M	
D622	8-719-987-63	DIODE 1N4148M (EE)	
D624	8-719-987-63	DIODE 1N4148M (EE)	
D1401	8-719-987-63	DIODE 1N4148M	
D1402	8-719-987-63	DIODE 1N4148M	
D1403	8-719-987-63	DIODE 1N4148M	
D1404	8-719-987-63	DIODE 1N4148M	
D1405	8-719-987-63	DIODE 1N4148M	
D1406	8-719-987-63	DIODE 1N4148M	
D1407	8-719-987-63	DIODE 1N4148M	
D1408	8-719-987-63	DIODE 1N4148M	
D1409	8-719-987-63	DIODE 1N4148M	
D1410	8-719-987-63	DIODE 1N4148M	
D1411	8-719-987-63	DIODE 1N4148M	
D1412	8-719-933-36	DIODE HZS6B1L	
D1413	8-719-933-36	DIODE HZS6B1L	
D1414	8-719-987-63	DIODE 1N4148M	
D1415	8-719-987-63	DIODE 1N4148M	
D1416	8-719-987-63	DIODE 1N4148M	
D1417	8-719-987-63	DIODE 1N4148M	
D1418	8-719-987-63	DIODE 1N4148M	
D1419	8-719-987-63	DIODE 1N4148M	
D1420	8-719-987-63	DIODE 1N4148M	
D1421	8-719-302-45	LED SEL1210S $\boxed{1}$	
D1422	8-719-302-45	LED SEL1210S $\boxed{2}$	
D1423	8-719-302-45	LED SEL1210S $\boxed{3}$	
D1424	8-719-302-45	LED SEL1210S $\boxed{4}$	
D1425	8-719-302-45	LED SEL1210S $\boxed{5}$	

Ref. No.	Part No.	Description	Remarks
D1426	8-719-301-38	LED SEL2210S-C (MEMORY)	
D1427	8-719-301-38	LED SEL2210S-C (PERSONAL)	
D1428	8-719-301-38	LED SEL2210S-C (HIGH)	
D1429	8-719-301-38	LED SEL2210S-C (MID)	
D1430	8-719-301-38	LED SEL2210S-C (LOW)	
D1431	8-719-301-38	LED SEL2210S-C (OFF)	
D1432	8-719-301-38	LED SEL2210S-C (HIGH)	
D1433	8-719-301-38	LED SEL2210S-C (MID)	
D1434	8-719-301-38	LED SEL2210S-C (LOW)	
D1435	8-719-301-38	LED SEL2210S-C (OFF)	
D1436	8-719-301-38	LED SEL2210S-C (EFFECT)	
D1437	8-719-302-45	LED SEL1210S (VIDEO)	
D1438	8-719-302-45	LED SEL1210S (TAPE)	
D1439	8-719-302-45	LED SEL1210S (CD)	
D1440	8-719-302-45	LED SEL1210S (TUNER)	
D1441	8-719-302-45	LED SEL1210S (PHONO)	
D1442	8-719-301-38	LED SEL2210S-C (VOL)	
D1443	8-719-301-38	LED SEL2210S-C (EQ, REC)	
		< FILTER >	
FL601	1-519-732-11	INDICATOR TUBE, FLUORESCENT	
FL1401	1-519-648-21	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-759-053-98	IC TMP47C1270N-SOX1029	
IC602	8-749-920-83	IC GP1U52XB	
IC1106	8-759-820-62	IC LB1639	
IC1401	8-759-153-68	IC uPD75106GF-761-3BE	
IC1402	8-759-820-59	IC LC7565	
IC1403	8-759-991-11	IC XR1091DCP	
IC1404	8-759-635-63	IC M51943BSL	
		< COIL >	
L601	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1102	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1152	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1404	8-729-900-61	TRANSISTOR DTA114ES	
Q1405	8-729-900-80	TRANSISTOR DTC114ES	
Q1406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1407	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1409	8-729-119-78	TRANSISTOR 2SC2785-HFE	

When indicating parts by reference number, please include the board name.

PANEL

Ref. No.	Part No.	Description				Remarks
Q1410	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1411	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1412	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1413	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1414	8-729-119-78	TRANSISTOR	2SC2785-HFE			
		< RESISTOR >				
R601	1-249-405-11	CARBON	100	5%	1/4W	
R602	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-249-429-11	CARBON	10K	5%	1/4W	
R604	1-249-425-11	CARBON	4.7K	5%	1/4W	
R605	1-249-441-11	CARBON	100K	5%	1/4W	
R606	1-249-405-11	CARBON	100	5%	1/4W	
R607	1-249-409-11	CARBON	220	5%	1/4W	
R608	1-249-409-11	CARBON	220	5%	1/4W	
R609	1-249-409-11	CARBON	220	5%	1/4W	
R610	1-249-409-11	CARBON	220	5%	1/4W	
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	
R612	1-249-423-11	CARBON	3.3K	5%	1/4W	
R613	1-249-441-11	CARBON	100K	5%	1/4W	
R614	1-249-441-11	CARBON	100K	5%	1/4W	
R615	1-249-441-11	CARBON	100K	5%	1/4W	
R616	1-249-429-11	CARBON	10K	5%	1/4W	
R617	1-249-433-11	CARBON	22K	5%	1/4W	
R618	1-249-425-11	CARBON	4.7K	5%	1/4W	
R619	1-249-429-11	CARBON	10K	5%	1/4W	
R620	1-249-429-11	CARBON	10K	5%	1/4W	
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-249-429-11	CARBON	10K	5%	1/4W	
R623	1-249-429-11	CARBON	10K	5%	1/4W	
R624	1-249-429-11	CARBON	10K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R626	1-249-429-11	CARBON	10K	5%	1/4W	
R627	1-249-429-11	CARBON	10K	5%	1/4W	
R628	1-249-429-11	CARBON	10K	5%	1/4W	
R629	1-249-429-11	CARBON	10K	5%	1/4W	
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R631	1-249-429-11	CARBON	10K	5%	1/4W	
R632	1-249-429-11	CARBON	10K	5%	1/4W	
R633	1-249-429-11	CARBON	10K	5%	1/4W	
R634	1-249-429-11	CARBON	10K	5%	1/4W	
R635	1-249-429-11	CARBON	10K	5%	1/4W	
R1122	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1123	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1124	1-249-433-11	CARBON	22K	5%	1/4W	
R1125	1-249-433-11	CARBON	22K	5%	1/4W	
R1126	1-249-433-11	CARBON	22K	5%	1/4W	
R1172	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1173	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1401	1-249-417-11	CARBON	1K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R1402	1-249-435-11	CARBON	33K	5%	1/4W	
R1403	1-249-429-11	CARBON	10K	5%	1/4W	
R1404	1-249-437-11	CARBON	47K	5%	1/4W	
R1405	1-249-405-11	CARBON	100	5%	1/4W	
R1406	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1407	1-249-437-11	CARBON	47K	5%	1/4W	
R1408	1-249-437-11	CARBON	47K	5%	1/4W	
R1409	1-249-437-11	CARBON	47K	5%	1/4W	
R1410	1-249-437-11	CARBON	47K	5%	1/4W	
R1412	1-249-441-11	CARBON	100K	5%	1/4W	
R1413	1-249-417-11	CARBON	1K	5%	1/4W	
R1414	1-249-417-11	CARBON	1K	5%	1/4W	
R1422	1-249-417-11	CARBON	1K	5%	1/4W	
R1423	1-249-437-11	CARBON	47K	5%	1/4W	
R1424	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1425	1-249-437-11	CARBON	47K	5%	1/4W	
R1426	1-249-437-11	CARBON	47K	5%	1/4W	
R1427	1-249-437-11	CARBON	47K	5%	1/4W	
R1428	1-249-437-11	CARBON	47K	5%	1/4W	
R1429	1-247-891-00	CARBON	330K	5%	1/4W	
R1430	1-247-891-00	CARBON	330K	5%	1/4W	
R1431	1-249-432-11	CARBON	18K	5%	1/4W	
R1432	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1433	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1434	1-249-435-11	CARBON	33K	5%	1/4W	
R1435	1-249-435-11	CARBON	33K	5%	1/4W	
R1436	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1437	1-249-405-11	CARBON	100	5%	1/4W	
R1438	1-249-405-11	CARBON	100	5%	1/4W	
R1439	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1440	1-249-404-00	CARBON	82	5%	1/4W	
R1441	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1442	1-249-404-00	CARBON	82	5%	1/4W	
R1443	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1444	1-249-404-00	CARBON	82	5%	1/4W	
R1445	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1446	1-249-404-00	CARBON	82	5%	1/4W	
R1447	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1448	1-249-404-00	CARBON	82	5%	1/4W	
R1449	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1450	1-249-404-00	CARBON	82	5%	1/4W	
R1451	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1452	1-249-404-00	CARBON	82	5%	1/4W	
R1453	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1454	1-249-437-11	CARBON	47K	5%	1/4W	
R1455	1-249-414-11	CARBON	560	5%	1/4W	
R1456	1-249-414-11	CARBON	560	5%	1/4W	
R1457	1-249-414-11	CARBON	560	5%	1/4W	
R1458	1-249-414-11	CARBON	560	5%	1/4W	
R1459	1-249-414-11	CARBON	560	5%	1/4W	

When indicating parts by reference number, please include the board name.

PANEL **H.P** **VOL** **POWER**

Ref. No.	Part No.	Description	Remarks
R1460	1-249-414-11	CARBON 560 5% 1/4W	
R1461	1-249-414-11	CARBON 560 5% 1/4W	
R1462	1-249-414-11	CARBON 560 5% 1/4W	
R1463	1-249-411-11	CARBON 330 5% 1/4W	
R1464	1-249-410-11	CARBON 270 5% 1/4W	
R1465	1-249-410-11	CARBON 270 5% 1/4W	
R1466	1-249-410-11	CARBON 270 5% 1/4W	
R1467	1-249-410-11	CARBON 270 5% 1/4W	
R1468	1-249-410-11	CARBON 270 5% 1/4W	
R1469	1-249-411-11	CARBON 330 5% 1/4W	
R1470	1-249-413-11	CARBON 470 5% 1/4W	
		< VARIABLE RESISTOR >	
RV1101	1-241-352-11	RES, VAR, CARBON 100K/100K (BALANCE)	
		< SWITCH >	
S601	1-554-303-21	SWITCH, TACTILE (1)	
S602	1-554-303-21	SWITCH, TACTILE (2)	
S603	1-554-303-21	SWITCH, TACTILE (3)	
S604	1-554-303-21	SWITCH, TACTILE (4)	
S605	1-554-303-21	SWITCH, TACTILE (5)	
S606	1-554-303-21	SWITCH, TACTILE (6)	
S607	1-554-303-21	SWITCH, TACTILE (7)	
S608	1-554-303-21	SWITCH, TACTILE (8)	
S609	1-554-303-21	SWITCH, TACTILE (9)	
S610	1-554-303-21	SWITCH, TACTILE (0)	
S611	1-554-303-21	SWITCH, TACTILE (UP)	
S612	1-554-303-21	SWITCH, TACTILE (DOWN)	
S613	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S614	1-554-303-21	SWITCH, TACTILE (BAND)	
S615	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S616	1-554-303-21	SWITCH, TACTILE (ONCE)	
S617	1-554-303-21	SWITCH, TACTILE (DAILY)	
S618	1-554-303-21	SWITCH, TACTILE (NEXT)	
S619	1-554-303-21	SWITCH, TACTILE (CLOCK)	
S620	1-554-303-21	SWITCH, TACTILE (SLEEP)	
S621	1-554-303-21	SWITCH, TACTILE (CONTROL)	
S622	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S623	1-554-303-21	SWITCH, TACTILE (BACK)	
S624	1-554-303-21	SWITCH, TACTILE (POWER)	
S625	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S626	1-554-303-21	SWITCH, TACTILE (ST/MUTE)	
S627	1-554-303-21	SWITCH, TACTILE (TIMER)	
S628	1-554-303-21	SWITCH, TACTILE (CHARACTOR)	
S1401	1-554-303-21	SWITCH, TACTILE (PHONO)	
S1402	1-554-303-21	SWITCH, TACTILE (TUNER)	
S1403	1-554-303-21	SWITCH, TACTILE (CD)	
S1404	1-554-303-21	SWITCH, TACTILE (TAPE)	
S1405	1-554-303-21	SWITCH, TACTILE (VIDEO)	
S1406	1-554-303-21	SWITCH, TACTILE (EQ REC)	
S1407	1-554-303-21	SWITCH, TACTILE (△)	
S1408	1-554-303-21	SWITCH, TACTILE (▽)	
S1409	1-554-303-21	SWITCH, TACTILE (HALL)	
S1410	1-554-303-21	SWITCH, TACTILE (DISCO)	
S1411	1-554-303-21	SWITCH, TACTILE (SURROUND)	
S1412	1-554-303-21	SWITCH, TACTILE (DBFB)	
S1413	1-554-303-21	SWITCH, TACTILE (◁)	
S1414	1-554-303-21	SWITCH, TACTILE (▷)	
S1415	1-554-303-21	SWITCH, TACTILE (CAR)	
S1416	1-554-303-21	SWITCH, TACTILE (WM)	
S1417	1-554-303-21	SWITCH, TACTILE (MOVE)	
S1418	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S1419	1-554-303-21	SWITCH, TACTILE (EFFCT)	
S1420	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S1421	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S1422	1-554-303-21	SWITCH, TACTILE (PERSONAL)	
		< VIBRATOR >	
X601	1-579-564-11	VIBRATOR, CRYSTAL (8.388608MHz)	
**			
*	1-642-384-11	H.P. BOARD	
		**********	
		< CAPACITOR >	
C1217	1-162-286-31	CERAMIC 220PF 10% 50V	(G, IT)
C1267	1-162-286-31	CERAMIC 220PF 10% 50V	(G, IT)
		< CONNECTOR >	
CN1202	1-691-003-21	JACK, LARGE TYPE (HEADPHONES)	
**			
*	1-642-385-11	VOL. BOARD	
		**********	
		< CAPACITOR >	
C1141	1-161-379-00	CERAMIC 0.01uF 20% 25V	
		< VARIABLE RESISTOR >	
RV1102	1-241-350-11	RES, VAR, CARBON 100K/100K (VOLUME)	
**			
*	A-4347-238-A	POWER BOARD, COMPLETE (AEP, G, IT, EE)	
*	A-4347-364-A	POWER BOARD, COMPLETE (UK)	
		********************	
*	1-560-595-00	TERMINAL (WITH BASE)	
*	1-564-321-00	PIN, CONNECTOR 2P	
*	1-638-298-11	POWER BOARD	
*	1-638-299-11	FUSE BOARD	

When indicating parts by reference number, please include the board name.

POWER TC SIGNAL

Ref. No.	Part No.	Description				Remarks
		< CAPACITOR >				
C1301	1-161-744-00	CERAMIC	0.01uF		400V	
C1330	1-136-165-00	FILM	0.1uF	5%	50V	
C1331	1-124-360-00	ELECT	1000uF	20%	16V	
C1332	1-124-463-00	ELECT	0.1uF	20%	50V	
C1333	1-124-907-11	ELECT	10uF	20%	50V	
C1335	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C1336	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C1337	1-124-907-11	ELECT	10uF	20%	50V	
C1338	1-124-122-11	ELECT	100uF	20%	50V	
C1339	1-124-907-11	ELECT	10uF	20%	50V	
C1340	1-124-910-11	ELECT	47uF	20%	50V	
C1345	1-124-477-11	ELECT	47uF	20%	25V	
		< CONNECTOR >				
⚠CN1301	1-575-651-61	CORD, POWER (AEP,G,IT,EE)				
⚠CN1301	1-575-652-21	CORD, POWER (UK)				
⚠CN1302	1-526-794-11	OUTLET, AC (AEP,G,IT,EE)				
⚠CN1302	1-526-751-00	OUTLET, AC (UK)				
		< DIODE >				
D1301	8-719-987-63	DIODE	1N4148M			
D1302	8-719-987-63	DIODE	1N4148M			
D1317	8-719-200-82	DIODE	11ES2			
D1318	8-719-200-82	DIODE	11ES2			
D1319	8-719-200-82	DIODE	11ES2			
D1320	8-719-200-82	DIODE	11ES2			
D1321	8-719-987-63	DIODE	1N4148M			
D1322	8-719-200-82	DIODE	11ES2			
D1323	8-719-002-60	DIODE	UZL-33L			
D1324	8-719-014-66	DIODE	UZP-5.6B			
D1330	8-719-987-63	DIODE	1N4148M			
		< FUSE >				
⚠F1301	1-532-203-00	FUSE (2.0A)				
⚠F1302	1-532-350-00	FUSE (4.0A)				
⚠F1303	1-532-350-00	FUSE (4.0A)				
⚠F1304	1-532-203-00	FUSE (2.0A)				
⚠F1305	1-532-203-00	FUSE (2.0A)				
		< IC >				
IC1305	8-759-820-13	IC	L78MR06			
		< TRANSISTOR >				
Q1302	8-729-141-83	TRANSISTOR	2SB1094-LK			
Q1303	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q1304	8-729-119-78	TRANSISTOR	2SC2785-HFE			
		< RESISTOR >				
⚠R1304	1-212-857-00	FUSIBLE	10	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
⚠R1305	1-212-934-00	FUSIBLE	1	5%	1/2W	F
R1306	1-249-417-11	CARBON	1K	5%	1/4W	
R1307	1-249-429-11	CARBON	10K	5%	1/4W	
R1308	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1309	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1310	1-249-433-11	CARBON	22K	5%	1/4W	
R1311	1-249-433-11	CARBON	22K	5%	1/4W	
		< RELAY >				
RY1301	1-515-720-11	RELAY				

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* A-4347-227-A TC SIGNAL BOARD, COMPLETE

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Ref. No.	Part No.	Description				Remarks
		< CAPACITOR >				
C701	1-136-157-00	FILM	0.022uF	5%	50V	
C704	1-162-288-31	CERAMIC	330PF	10%	50V	
C705	1-131-587-11	TANTALUM	0.68uF	5%	35V	
C706	1-124-907-11	ELECT	10uF	20%	50V	
C707	1-124-902-00	ELECT	0.47uF	20%	50V	
C708	1-124-907-11	ELECT	10uF	20%	50V	
C709	1-124-925-11	ELECT	2.2uF	20%	100V	
C710	1-124-907-11	ELECT	10uF	20%	50V	
C751	1-136-157-00	FILM	0.022uF	5%	50V	
C754	1-162-288-31	CERAMIC	330PF	10%	50V	
C755	1-131-587-11	TANTALUM	0.68uF	5%	35V	
C756	1-124-907-11	ELECT	10uF	20%	50V	
C757	1-124-902-00	ELECT	0.47uF	20%	50V	
C758	1-124-907-11	ELECT	10uF	20%	50V	
C759	1-124-925-11	ELECT	2.2uF	20%	100V	
C760	1-124-907-11	ELECT	10uF	20%	50V	
C801	1-124-903-11	ELECT	1uF	20%	50V	
C802	1-161-494-00	CERAMIC	0.022uF		25V	
C803	1-124-925-11	ELECT	2.2uF	20%	100V	
C804	1-124-443-00	ELECT	100uF	20%	10V	
C805	1-124-443-00	ELECT	100uF	20%	10V	
C806	1-124-907-11	ELECT	10uF	20%	50V	
C807	1-124-443-00	ELECT	100uF	20%	10V	
C808	1-124-443-00	ELECT	100uF	20%	10V	
C901	1-124-907-11	ELECT	10uF	20%	50V	
C902	1-136-165-00	FILM	0.1uF	5%	50V	
C903	1-136-165-00	FILM	0.1uF	5%	50V	
C904	1-124-903-11	ELECT	1uF	20%	50V	
C905	1-162-288-31	CERAMIC	330PF	10%	50V	
C906	1-162-288-31	CERAMIC	330PF	10%	50V	
		< CONNECTOR >				
* CN901	1-568-850-11	SOCKET, CONNECTOR 7P				
* CN902	1-568-850-11	SOCKET, CONNECTOR 7P				

When indicating parts by reference number, please include the board name.

TC SIGNAL

Ref. No.	Part No.	Description	Remarks
* CN903	1-568-854-11	SOCKET, CONNECTOR 11P	
CN903	1-580-783-11	CONNECTOR, BOARD TO BOARD	
CN904	1-506-469-11	CONNECTOR 4P, MALE	
* CN905	1-568-830-11	SOCKET, CONNECTOR 11P	
* CN906	1-564-508-11	PLUG, CONNECTOR 5P	
CN907	1-580-783-11	CONNECTOR, BOARD TO BOARD	
CN909	1-580-783-11	CONNECTOR, BOARD TO BOARD	

< CONNECTOR >

Ref. No.	Part No.	Description	Remarks
* CNP801	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	
* CNP901	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	

< DIODE >

Ref. No.	Part No.	Description	Remarks
D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-933-50	DIODE HZS7C2L	
D803	8-719-933-50	DIODE HZS7C2L	
D804	8-719-001-18	DIODE UZL-9M3	
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	

< IC >

Ref. No.	Part No.	Description	Remarks
IC801	8-759-634-51	IC M5218AP	
IC803	8-759-140-53	IC MC14053BCP	
IC805	8-752-057-21	IC CXA1100P	
IC806	8-752-060-64	IC CXA1198AP	
IC807	8-759-000-48	IC uPD4052BC-A	
IC901	8-759-207-05	IC TA7272P	
IC902	8-759-636-69	IC M50964-251FP	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remarks
Q701	8-729-900-74	TRANSISTOR DTC143TS	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q751	8-729-900-74	TRANSISTOR DTC143TS	
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q753	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q801	8-729-900-61	TRANSISTOR DTA114ES	
Q802	8-729-900-61	TRANSISTOR DTA114ES	
Q803	8-729-900-61	TRANSISTOR DTA114ES	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q903	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q904	8-729-900-61	TRANSISTOR DTA114ES	
Q905	8-729-900-80	TRANSISTOR DTC114ES	
Q906	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q908	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q910	8-729-900-61	TRANSISTOR DTA114ES	
Q911	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q913	8-729-900-61	TRANSISTOR DTA114ES	
Q914	8-729-900-89	TRANSISTOR DTC144ES	
Q915	8-729-116-57	TRANSISTOR 2SB1068-K	
Q916	8-729-116-57	TRANSISTOR 2SB1068-K	

< RESISTOR >

Ref. No.	Part No.	Description	Remarks
R701	1-249-421-11	CARBON 2.2K 5% 1/4W	
R702	1-249-423-11	CARBON 3.3K 5% 1/4W	
R703	1-247-887-00	CARBON 220K 5% 1/4W	
R708	1-249-434-11	CARBON 27K 5% 1/4W	
R709	1-249-419-11	CARBON 1.5K 5% 1/4W	
R710	1-249-425-11	CARBON 4.7K 5% 1/4W	
R711	1-249-426-11	CARBON 5.6K 5% 1/4W	
R712	1-249-425-11	CARBON 4.7K 5% 1/4W	
R713	1-249-421-11	CARBON 2.2K 5% 1/4W	
R714	1-249-421-11	CARBON 2.2K 5% 1/4W	
R715	1-249-421-11	CARBON 2.2K 5% 1/4W	
R716	1-249-425-11	CARBON 4.7K 5% 1/4W	
R717	1-249-421-11	CARBON 2.2K 5% 1/4W	
R751	1-249-421-11	CARBON 2.2K 5% 1/4W	
R752	1-249-423-11	CARBON 3.3K 5% 1/4W	
R753	1-247-887-00	CARBON 220K 5% 1/4W	
R758	1-249-434-11	CARBON 27K 5% 1/4W	
R759	1-249-419-11	CARBON 1.5K 5% 1/4W	
R760	1-249-425-11	CARBON 4.7K 5% 1/4W	
R761	1-249-426-11	CARBON 5.6K 5% 1/4W	
R762	1-249-425-11	CARBON 4.7K 5% 1/4W	
R763	1-249-421-11	CARBON 2.2K 5% 1/4W	
R764	1-249-421-11	CARBON 2.2K 5% 1/4W	
R765	1-249-421-11	CARBON 2.2K 5% 1/4W	
R766	1-249-425-11	CARBON 4.7K 5% 1/4W	
R767	1-249-421-11	CARBON 2.2K 5% 1/4W	
R801	1-249-441-11	CARBON 100K 5% 1/4W	
R802	1-249-417-11	CARBON 1K 5% 1/4W	
R803	1-249-441-11	CARBON 100K 5% 1/4W	
R804	1-249-427-11	CARBON 6.8K 5% 1/4W	
R805	1-249-413-11	CARBON 470 5% 1/4W	
R806	1-249-429-11	CARBON 10K 5% 1/4W	
R807	1-249-413-11	CARBON 470 5% 1/4W	
R808	1-247-870-11	CARBON 43K 5% 1/4W	
R809	1-249-431-11	CARBON 15K 5% 1/4W	
R810	1-215-460-00	METAL 43K 1% 1/6W	
R811	1-249-437-11	CARBON 47K 5% 1/4W	
R812	1-249-437-11	CARBON 47K 5% 1/4W	
R813	1-247-887-00	CARBON 220K 5% 1/4W	
R814	1-247-864-11	CARBON 24K 5% 1/4W	
R815	1-249-405-11	CARBON 100 5% 1/4W	
R816	1-249-405-11	CARBON 100 5% 1/4W	
R817	1-249-436-11	CARBON 39K 5% 1/4W	

When indicating parts by reference number, please include the board name.

TC SIGNAL

Ref. No.	Part No.	Description				Remarks
R818	1-249-435-11	CARBON	33K	5%	1/4W	
R819	1-249-432-11	CARBON	18K	5%	1/4W	
R820	1-247-878-00	CARBON	91K	5%	1/4W	
R821	1-247-881-00	CARBON	120K	5%	1/4W	
R822	1-249-437-11	CARBON	47K	5%	1/4W	
R823	1-247-862-11	CARBON	20K	5%	1/4W	
R824	1-247-868-11	CARBON	36K	5%	1/4W	
R825	1-249-433-11	CARBON	22K	5%	1/4W	
R826	1-247-876-11	CARBON	75K	5%	1/4W	
R827	1-247-868-11	CARBON	36K	5%	1/4W	
R828	1-247-878-00	CARBON	91K	5%	1/4W	
R829	1-247-874-11	CARBON	62K	5%	1/4W	
R830	1-249-437-11	CARBON	47K	5%	1/4W	
R831	1-249-433-11	CARBON	22K	5%	1/4W	
R832	1-247-878-00	CARBON	91K	5%	1/4W	
R833	1-247-881-00	CARBON	120K	5%	1/4W	
R834	1-247-876-11	CARBON	75K	5%	1/4W	
R835	1-247-868-11	CARBON	36K	5%	1/4W	
R836	1-249-438-11	CARBON	56K	5%	1/4W	
R837	1-249-432-11	CARBON	18K	5%	1/4W	
R838	1-249-434-11	CARBON	27K	5%	1/4W	
R839	1-249-440-11	CARBON	82K	5%	1/4W	
R840	1-249-440-11	CARBON	82K	5%	1/4W	
R841	1-249-417-11	CARBON	1K	5%	1/4W	
R842	1-249-409-11	CARBON	220	5%	1/4W	
R843	1-249-417-11	CARBON	1K	5%	1/4W	
R844	1-249-429-11	CARBON	10K	5%	1/4W	
R845	1-249-429-11	CARBON	10K	5%	1/4W	
R846	1-249-429-11	CARBON	10K	5%	1/4W	
R847	1-249-405-11	CARBON	100	5%	1/4W	
R848	1-249-405-11	CARBON	100	5%	1/4W	
R901	1-249-412-11	CARBON	390	5%	1/4W	
R902	1-249-412-11	CARBON	390	5%	1/4W	
R903	1-249-415-11	CARBON	680	5%	1/4W	
R904	1-249-415-11	CARBON	680	5%	1/4W	
R905	1-249-409-11	CARBON	220	5%	1/4W	
R906	1-249-416-11	CARBON	820	5%	1/4W	
R907	1-249-409-11	CARBON	220	5%	1/4W	
R908	1-249-412-11	CARBON	390	5%	1/4W	
R909	1-249-412-11	CARBON	390	5%	1/4W	
R910	1-249-412-11	CARBON	390	5%	1/4W	
R911	1-247-820-11	CARBON	360	5%	1/4W	
R913	1-249-420-11	CARBON	1.8K	5%	1/4W	
R915	1-249-429-11	CARBON	10K	5%	1/4W	
R916	1-249-425-11	CARBON	4.7K	5%	1/4W	
R917	1-249-417-11	CARBON	1K	5%	1/4W	
R918	1-249-429-11	CARBON	10K	5%	1/4W	
R919	1-249-429-11	CARBON	10K	5%	1/4W	
R920	1-249-441-11	CARBON	100K	5%	1/4W	
R921	1-247-895-00	CARBON	470K	5%	1/4W	
R922	1-247-895-00	CARBON	470K	5%	1/4W	
R923	1-249-421-11	CARBON	2.2K	5%	1/4W	
R924	1-249-421-11	CARBON	2.2K	5%	1/4W	
R925	1-249-425-11	CARBON	4.7K	5%	1/4W	
R926	1-249-434-11	CARBON	27K	5%	1/4W	
R927	1-249-429-11	CARBON	10K	5%	1/4W	
R928	1-249-429-11	CARBON	10K	5%	1/4W	
R929	1-249-434-11	CARBON	27K	5%	1/4W	
R930	1-249-429-11	CARBON	10K	5%	1/4W	
R931	1-249-429-11	CARBON	10K	5%	1/4W	
R932	1-249-429-11	CARBON	10K	5%	1/4W	
R933	1-249-422-11	CARBON	2.7K	5%	1/4W	
R934	1-249-422-11	CARBON	2.7K	5%	1/4W	
R935	1-249-422-11	CARBON	2.7K	5%	1/4W	
R936	1-247-860-11	CARBON	16K	5%	1/4W	
R937	1-247-862-11	CARBON	20K	5%	1/4W	
R938	1-249-425-11	CARBON	4.7K	5%	1/4W	
R939	1-249-437-11	CARBON	47K	5%	1/4W	
R940	1-247-866-11	CARBON	30K	5%	1/4W	
R941	1-247-860-11	CARBON	16K	5%	1/4W	
R942	1-247-862-11	CARBON	20K	5%	1/4W	
R943	1-249-425-11	CARBON	4.7K	5%	1/4W	
R944	1-249-437-11	CARBON	47K	5%	1/4W	
R945	1-247-866-11	CARBON	30K	5%	1/4W	
R946	1-247-872-11	CARBON	51K	5%	1/4W	
R947	1-247-872-11	CARBON	51K	5%	1/4W	
R948	1-249-405-11	CARBON	100	5%	1/4W	
R949	1-247-872-11	CARBON	51K	5%	1/4W	
R950	1-247-872-11	CARBON	51K	5%	1/4W	
R951	1-249-405-11	CARBON	100	5%	1/4W	
R952	1-249-415-11	CARBON	680	5%	1/4W	
R953	1-249-415-11	CARBON	680	5%	1/4W	
R954	1-249-429-11	CARBON	10K	5%	1/4W	
R955	1-249-429-11	CARBON	10K	5%	1/4W	
R971	1-249-429-11	CARBON	10K	5%	1/4W	
R972	1-247-903-00	CARBON	1M	5%	1/4W	
R973	1-249-417-11	CARBON	1K	5%	1/4W	
R974	1-249-417-11	CARBON	1K	5%	1/4W	
R975	1-249-429-11	CARBON	10K	5%	1/4W	

< VARIABLE RESISTOR >

RV701	1-230-721-11	RES, ADJ, CARBON 10K (REC LEVEL)
RV751	1-230-721-11	RES, ADJ, CARBON 10K (REC LEVEL)

< VIBRATOR >

X901	1-577-358-21	VIBRATOR, CERAMIC (4.0MHz)

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When indicating parts by reference number, please include the board name.

DISPLAY TC SW

Ref. No.	Part No.	Description	Remarks
*	1-642-153-11	DISPLAY BOARD *************	

< CONNECTOR >

Ref. No.	Part No.	Description	Remarks
* CN903-	1-568-854-11	SOCKET, CONNECTOR 11P	

< DIODE >

Ref. No.	Part No.	Description	Remarks
D903	8-719-301-52	LED SEL2810A-C (◁)(DECK A)	
D904	8-719-301-52	LED SEL2810A-C (▷)(DECK A)	
D905	8-719-301-38	LED SEL2210S-C (DUB H)	
D906	8-719-301-38	LED SEL2210S-C (DUB N)	
D907	8-719-301-44	LED SEL2410E-D (PLAY)(DECK A)	
D908	8-719-301-38	LED SEL2210S-C (○) (DECK B)	
D909	8-719-301-44	LED SEL2410E-D (PLAY)(DECK B)	
D910	8-719-301-52	LED SEL2810A-C (▯▯)(DECK B)	
D911	8-719-301-52	LED SEL2810A-C (◁)(DECK B)	
D912	8-719-301-52	LED SEL2810A-C (▷)(DECK B)	

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Ref. No.	Part No.	Description	Remarks
*	1-642-152-11	TC SW BOARD ***********	

< RESISTOR >

Ref. No.	Part No.	Description	Remarks
R956	1-249-407-11	CARBON 150 5% 1/4W	
R957	1-249-409-11	CARBON 220 5% 1/4W	
R958	1-249-411-11	CARBON 330 5% 1/4W	
R959	1-249-413-11	CARBON 470 5% 1/4W	
R960	1-249-415-11	CARBON 680 5% 1/4W	
R961	1-249-417-11	CARBON 1K 5% 1/4W	
R962	1-249-420-11	CARBON 1.8K 5% 1/4W	
R963	1-249-407-11	CARBON 150 5% 1/4W	
R964	1-249-409-11	CARBON 220 5% 1/4W	
R965	1-249-411-11	CARBON 330 5% 1/4W	
R966	1-249-413-11	CARBON 470 5% 1/4W	
R967	1-249-415-11	CARBON 680 5% 1/4W	
R968	1-249-417-11	CARBON 1K 5% 1/4W	
R969	1-249-426-11	CARBON 5.6K 5% 1/4W	
R970	1-249-430-11	CARBON 12K 5% 1/4W	
R1472	1-249-433-11	CARBON 22K 5% 1/4W	
R1480	1-249-417-11	CARBON 1K 5% 1/4W	

< SWITCH >

Ref. No.	Part No.	Description	Remarks
S901	1-572-268-11	SWITCH, SLIDE (RELY)	
S902	1-572-269-11	SWITCH, SLIDE (DOLBY SW)	
S903	1-554-303-21	SWITCH, TACTILE (□)(DECK A)	
S904	1-554-303-21	SWITCH, TACTILE (▷)(DECK A)	
S905	1-554-303-21	SWITCH, TACTILE (◁)(DECK A)	
S906	1-554-303-21	SWITCH, TACTILE (◁◁)(DECK B)	
S907	1-554-303-21	SWITCH, TACTILE (▷▷)(DECK B)	
S908	1-554-303-21	SWITCH, TACTILE (○)(DECK B)	
S909	1-554-303-21	SWITCH, TACTILE (DUB H)	
S910	1-554-303-21	SWITCH, TACTILE (DUB N)	
S911	1-554-303-21	SWITCH, TACTILE (□)(DECK B)	
S912	1-554-303-21	SWITCH, TACTILE (▯▯)(DECK B)	
S913	1-554-303-21	SWITCH, TACTILE (▷)(DECK B)	
S914	1-554-303-21	SWITCH, TACTILE (◁)(DECK B)	
S915	1-554-303-21	SWITCH, TACTILE (⊡)(DECK B)	
S916	1-554-303-21	SWITCH, TACTILE (◁◁)(DECK A)	
S917	1-554-303-21	SWITCH, TACTILE (▷▷)(DECK A)	

****

MISCELLANEOUS

****

Ref. No.	Part No.	Description	Remarks
4	1-533-217-31	HOLDER, FUSE	
* 10	1-690-948-11	WIRE (FLAT TYPE) (19 CORE)	
11	1-590-577-11	WIRE, FLAT TYPE (17 CORE)	
12	1-590-576-11	WIRE, FLAT TYPE (11 CORE)	
61	1-590-575-11	WIRE, FLAT TYPE (11 CORE)	
115	1-590-459-11	WIRE, FLAT TYPE (11 CORE)	
116	1-590-574-11	WIRE, FLAT TYPE (7 CORE)	
172	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
* HP901	A-2003-757-A	BASE ASSY, HEAD (DECK A)	
HRP901	A-2003-930-A	BASE ASSY, HEAD (DECK B)	
M901A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M901B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	
M902A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M902B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
⚠T1301	1-450-787-11	TRANSFORMER, POWER	
⚠T1302	1-450-397-21	TRANSFORMER, POWER	

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ACCESSORIES & PACKING MATERIALS

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Ref. No.	Part No.	Description	Remarks
	1-465-697-11	REMOTE COMMANDER	
	1-501-369-11	ANTENNA (IT)	
	1-501-374-11	ANTENNA, LOOP (IT)	
*	3-703-713-41	STICKER, SONY SYMBOL (10)	
	3-707-584-01	COVER, BATTERY	
	3-754-671-11	MANUAL, INSTRUCTION (English)(UK)	
	3-754-671-41	MANUAL, INSTRUCTION (English, German, Spanish, Portuguese)(AEP)	
	3-754-671-51	MANUAL, INSTRUCTION (German, Dutch, Swedish, Italian)(AEP/G/IT)	
	3-754-671-61	MANUAL, INSTRUCTION (English, German, Polish, Russian)(EE)	
	4-921-934-01	SHEET, PROTECTION	
*	4-949-865-01	CUSHION	
*	4-951-306-01	INDIVIDUAL CARTON (IT)	
	4-951-625-01	LABEL, POP (UK)	
	4-952-200-01	LABEL, EAN CODE (UK)	
	4-952-721-01	LABEL, PTT APPROVAL (IT)	

****

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remarks
		HARDWARE LIST	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-547-04	SCREW +BVTT 3X6 (S)	
#3	7-682-548-04	SCREW +BVTT 3X8 (S)	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#5	7-627-556-08	SCREW +P 2.6X2.8	
#6	7-621-775-00	SCREW +B 2.6X3	

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HST-D307

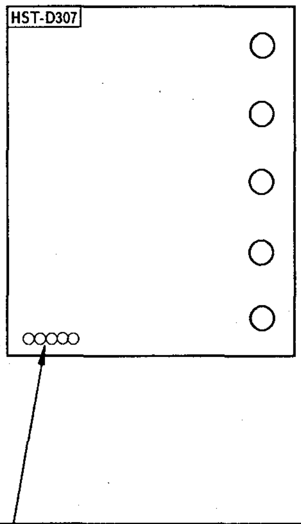
SONY
SERVICE MANUAL

AEP Model
UK Model
East European Model

CORRECTION-1

Correct your service manual as shown below.

Page 64.



INCORRECT	CORRECT
9-957-708-11	9-957-189-11

9-957-189-91

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